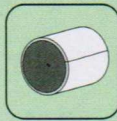
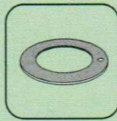
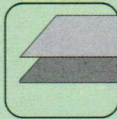
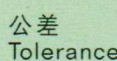
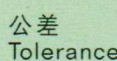


DYB100 (SF-1)

自润滑多层复合轴承

SELF-LUBRICATED MULTILAYER COMPOUND BEARING

基本特性：适用于低载高速下的旋转、往复、摇摆运动和无法加油或较难加油的工作部位，耐磨性能好、摩擦系数小、使用寿命长；走合性能好、低噪音、无污染、耐腐蚀性好；运转中形成的转移膜起到保护对磨轴的作用，无咬轴现象；对磨轴的加工要求低，减轻了用户加工成本。

技术参数 Tech. Data		代号 Grade	DYB101(SF-1X)	DYB102(SF-1T)	DYB103(SF-1P)				
		材料 Material	钢+铜粉+(PTFE+Pb+聚合物) Steel+Bronze powder+ (PTFE+Pb+Polymer)	钢+铜粉+(PTFE+Pb+聚合物) Steel+Bronze powder+ (PTFE+Pb+Polymer)	钢+铜粉+(PTFE+Pb+聚合物) Steel+Bronze powder+ (PTFE+Pb+Polymer)				
物理机械性能 Physical and mechanical Performance	最大承载压力 Load capacity	静载 Static load	250N/mm ²	250N/mm ²	250N/mm ²				
		动载 Dymamic load	140N/mm ²	140N/mm ²	140N/mm ²				
		摇摆动运 Oscillating	60N/mm ²	60N/mm ²	60N/mm ²				
	最大线速度 Speed limit	油润滑 Oil lubrication	5m/s	10m/s	2.5m/s				
		干摩擦 Dry friction	2.5m/s	2.5m/s	2m/s				
	最高PV值 PV value limit	油润滑 Oil lubrication	50N/mm ² .m/s	60N/mm ² .m/s	50N/mm ² .m/s				
		干摩擦 Dry friction	3.6N/mm ² .m/s	4.3N/mm ² .m/s	1.8N/mm ² .m/s				
	摩擦系数 μ Friction coef μ		0.04~0.20	0.03~0.18	0.04~0.20				
	工作温度 Working temperature		-195℃~+280℃	-195℃~+280℃	-195℃~+280℃				
	导热系数 Themal conductivity		40W/mk	40W/mk	40W/mk				
	线膨胀系数 Coefficient of linear expansion		11×10 ⁻⁶ /K	11×10 ⁻⁶ /K	11×10 ⁻⁶ /K				
主要运用领域 Typical application			DYB101无油润滑轴承，是以钢板为基体，中间烧结球形青铜粉，表面轧制聚四氟乙烯（PTFE）和铅的混合物卷制而成。它具有摩擦系数小、耐磨、抗腐蚀性好和无油润滑的特点。能降低成本、缩小机械体积、避免咬轴现象和降低噪音等优点。产品已广泛应用于各种机械的滑动部位，例如：印刷机、纺织机、烟草机械、汽车、摩托车与农林机械等。			DYB102齿轮油泵的高PV值工况条件而设计推出的特殊配方产品。产品具有特殊的抗疲劳冲击优点。适应的油泵压力：16-25 Mpa,线速为度 3.5-5 m/s。产品具有特殊的抗疲劳、抗冲击的优点，在流体润滑境界下 PV值 可达到 120N/mm ² .m/s是各种齿轮油泵、柱塞泵、叶片泵的最佳选择。	DYB103往复运动轴承，是在DYB101材料的结构基础上，根据往复运动的特殊共况条件而设计的新颖配方产品，其性能与国外DD2相似。因其不含铅，故迎合了环保要求。		
可供形式 Availability			DYB101is wall wrapped bushing made of triple layer composites material which be consisted of a steel backing, a sintered porous bronze particles interlayer and calendared with PTFE and Pb mixture as surface layer. It is of low friction coefficient, anti-wear, anti-corrosion and can be used without oil, or only a trace of oil if needed. Moreover, it is of low cost, low vibration and low noise, compacted and light, SF-1 is widely applied in various sliding articles of different kind of machines, such as textile machines, tobacco machines, hydraulic vehicles, automobiles, agriculture and forests machinese and soon.			DYB102 is composed of a specially designed surface layer of PTFE formulations and is specifically applied for the high PV bushes of gear oil pumps. It is to be used in hydrodynamic or boundary lubricating condition of medium or high pressure gear oil pumps such as P=16-25 Mpa, V=3.5-5m/s. It shows the benefits of low friction coefficient, wear resistant and anti-impact properties. At hydrodynamic lubrication, the PV limit reaches to 120N/mm ² .m/s.It is a best choice for the bushes of various kinds of gear pumps as well as plunger pumps, vane pumps and so on.	DYB103 is particularly suitable for bushes in reciprocating motion, and the properties are similar to that of the foreign product designated as DD2.It is wear resistant, and so can keep the lubricating oil clear after long period of working. Meanwhile it can protect the mating surface from wearing. It is used widely as oil damping vibrating absorber of automobiles, motorcycles and various hydraulic cylinders, hydraulic motors and pneumatic elements.		
 直套 Straight sets  翻边 Flange  止推垫片 Thrust pads  滑板 Skateboards  非标产品定制 Custom-made special products <td colspan="3">  公差 Tolerance 相配座孔公差：H7 ； 相配轴径公差：f7 Recommend housing tolerance H7 and the shaft as f7 . </td> <td></td> <td></td> <td></td> <td></td>			 公差 Tolerance 相配座孔公差：H7 ； 相配轴径公差：f7 Recommend housing tolerance H7 and the shaft as f7 .						

DYB100 (SF-1)

自润滑多层复合轴承

SELF-LUBRICATED MULTILAYER COMPOUND BEARING

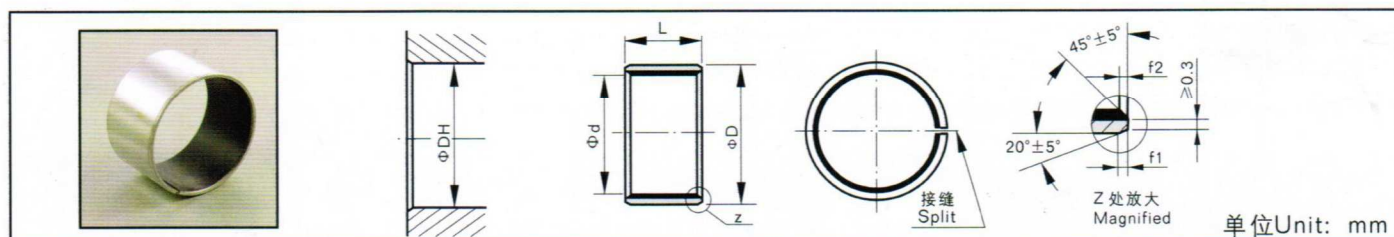
Features: Suitable for dry running, low coefficient of friction, lower wear, good sliding characteristics, forming a transfer film can protect the mating metal surface, suitable for rotary and oscillating movement. High chemical resistance, low absorption of water and swelling. Also performs well with lubrication.

	DYB104(SF-1W)	DYB105(SF-1B)	DYB106(SF-1D)	DYB107(SF-1S)	DYB108(SF-1SS)
	钢+铜粉+(PTFE+聚合物) Steel+Bronze powder+(PTFE+Polymer)	铜+铜粉+(PTFE+聚合物) Bronze+Bronze powder+(PTFE+Polymer)	钢+铜粉+(PTFE+聚合物) Steel+Bronze powder+(PTFE+Polymer)	不锈钢+铜粉+(PTFE+聚合物) Stainless steel+Bronze powder+(PTFE+Polymer)	不锈钢+(PTFE+聚合物) Stainless steel+(PTFE+Polymer)
	250N/mm ²	250N/mm ²	250N/mm ²	250N/mm ²	
	140N/mm ²	140N/mm ²	140N/mm ²	140N/mm ²	
	60N/mm ²	60N/mm ²	60N/mm ²	60N/mm ²	100N/mm ²
	5m/s	5m/s	5m/s	5m/s	5m/s
	2.5m/s	2.5m/s	2.5m/s	2.5m/s	2.5m/s
	50N/mm ² .m/s	60N/mm ² .m/s	50N/mm ² .m/s	50N/mm ² .m/s	40N/mm ² .m/s
	3.6N/mm ² .m/s	4.3N/mm ² .m/s	3.8N/mm ² .m/s	3.6N/mm ² .m/s	3.0N/mm ² .m/s
	0.04~0.20	0.04~0.18	0.04~0.20	0.04~0.20	0.03~0.18
	-195℃~+280℃	-195℃~+300℃	-195℃~+280℃	-195℃~+270℃	-190℃~+280℃
	40W/mk	60W/mk	40W/mk	40W/mk	18W/mk
	11×10 ⁻⁶ /K	21×10 ⁻⁶ /K	15×10 ⁻⁶ /K	15×10 ⁻⁶ /K	
	DYB104无铅轴承，是在DYB101材料基础上根据国际环保要求而开发的一种新产品。该产品除广泛适用于一般通用机械外，对食品机械、制药机械、烟草机械尤其适用，无铅效果符合欧洲卫生标准，是无油润滑轴承发展的方向。 DYB104 is a new type bushing without lead composition which is developed aiming at increasing demands on environmental protection. Besides its wide application on general machines, DYB101 is particularly suitable for food machine, Pharmaceutical machine, tobacco, machine etc.	DYB105是以锡青铜为基体，中间烧结青铜球形粉，表面轧制PTFE和耐高温填充材料而成。它有很高的安全系数，特别适用在连续工作不能停机修理和高温不能加油的场所。广泛应用于冶金钢铁工业，连铸机方坯滚道、高温炉前设备，水泥灌浆泵和螺旋式输送机上。它可以在外部组合钢套，也可以制成翻边，达到端面、内孔同时摩擦使用的效果。 DYB105 is of high safety factor, and is particularly appropriate for high temperature environment where no oil is efficient and where the machine must be under successive long period working condition. This is widely used in steel metallurgy industry such as bushes for roller grooves of successive casting machines, cement grouting pumps and screw conveyers for cement. It can also be composed in steel housing or fabricated into Flanged bushes which can move both in radial and in axial directions.	DYB106液压专用轴承，是在DYB103的基础上结合油缸及减震器工作原理而设计的一种新型材料，在无油的条件下显得更耐磨，该产品除具有DYB103的优点外，特别适用于往复频繁的大侧向力场合。其性能与国外DP4相似，目前该产品逐步替代DYB103产品，适用于汽车、摩托车减震器以及各种液压缸等领域。 DYB106 Hydraulic bushing is developed on the basis of SF-1P and meanwhile considering the motion way of oil pump and damper. It is the substitute of and parallels in performance with abroad DP4. In addition to covering the same usage of DYB103, DYB106 in particular fits frequently reciprocating motion with a high side force. It is a tendency to gradually replace DYB103 with DYB106, the latter will cover a wide application in auto mobile, motor damper and oil pumps, etc.	DYB107不锈钢耐腐蚀轴承，是以不锈钢材料为基体，中间烧结耐腐蚀合金粉末，表面轧制以聚四氟乙烯为主的低摩擦材料，经过卷制成型的一种十分有效的耐腐蚀材料。它具有耐油、耐酸、耐碱、耐海水和耐磨损的特点，表面的PTFE材料不含铅成份。在食品饮料机械、印染机械、化工机械、海洋工业耐腐蚀滑动部位最适合使用。 DYB107 is of oil resistant, acid resistant, alkali resistant and seawater resistant. Moreover, there is no lead in the PTFE surface layer and so is particularly fit for bushings in food stuff machines, alkali flow meters, pumps motion elements in pharmaceutical machines, printing machines chemical engineering machines and other ocean industry. ※注 Note 无翻边形式 without flange bearing	DYB108不锈钢喷塑轴承，是以不锈钢材料为基体，表面涂喷PTFE组成的高耐蚀、耐磨轴承。该材料特别适应强酸、强碱、轻载中低速的场合，其耐磨性能明显优于单体PTFE轴承和石墨轴承。目前该产品已广泛用于化工酸碱流量计、泵、阀以及海洋工业中耐腐蚀滑动的部位。 DYB108 bushing is based on stainless steel back and spray-painted PTFE on the surface. It has good performance of anti-acid, anti-alkali, anti-salty liquid and can be widely used in chemical industry such as acid/alkali flow indicator, pumps, valves etc and also in the sliding position where anti-corrosion is a necessity mostly in marine industry.
					

DYB100 (SF-1)

自润滑多层复合轴承

SELF-LUBRICATED MULTILAYER COMPOUND BEARING



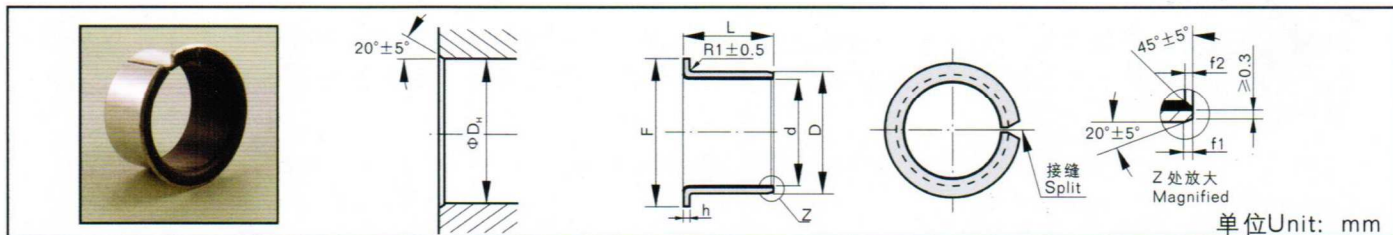
压入座孔后的 内径 I.D. after fixed	D	轴径 Shaft Dia.	座孔 Housing Bore H7	壁厚 Wall Thickness	f ₁	f ₂	L 0 (d≤Φ30 L - 0.3) -0.40 (d>Φ30 L - 0.4)																
							6	8	10	12	15	20	25	30	40	50	60	70	80	90	100	115	
5.990 6.055	8	+0.055 +0.025	6	-0.013 -0.028	8	+0.015		●	●	●													
7.990 8.055	10	+0.055 +0.025	8	-0.013 -0.028	10	+0.015		●	●	●	●	●											
9.990 10.058	12	+0.065 +0.030	10	-0.016 -0.034	12	+0.018			●	●	●	●											
11.990 12.058	14	+0.065 +0.030	12	-0.016 -0.034	14	+0.018			●	●	●	●	●	●									
13.990 14.058	16	+0.065 +0.030	14	-0.016 -0.034	16	+0.018				●	●	●	●	●	●								
14.990 15.058	17	+0.065 +0.030	15	-0.016 -0.034	17	+0.018				●	●	●	●	●	●								
15.990 16.058	18	+0.065 +0.030	16	-0.016 -0.034	18	+0.018					●	●	●	●	●								
16.990 17.061	19	+0.075 +0.035	17	-0.016 -0.034	19	+0.021					●	●		●									
17.990 18.061	20	+0.075 +0.035	18	-0.016 -0.034	20	+0.021					●	●	●	●	●								
19.990 20.071	23	+0.075 +0.035	20	-0.020 -0.041	23	+0.021					●	●	●	●	●	●							
21.990 22.071	25	+0.075 +0.035	22	-0.020 -0.041	25	+0.021						●	●	●	●	●	●						
23.990 24.071	27	+0.075 +0.035	24	-0.020 -0.041	27	+0.021							●	●	●	●							
24.990 25.071	28	+0.075 +0.035	25	-0.020 -0.041	28	+0.021							●	●	●	●	●						
27.990 28.085	32	+0.085 +0.045	28	-0.020 -0.041	32	+0.025							●	●	●	●	●	●					
29.990 30.085	34	+0.085 +0.045	30	-0.020 -0.041	34	+0.025						●	●	●	●	●	●						
31.990 32.085	36	+0.085 +0.045	32	-0.025 -0.050	36	+0.025								●		●	●						
34.990 35.085	39	+0.085 +0.045	35	-0.025 -0.050	39	+0.025								●	●	●	●	●	●				
37.990 38.085	42	+0.085 +0.045	38	-0.025 -0.050	42	+0.025										●	●						
39.990 40.085	44	+0.085 +0.045	40	-0.025 -0.050	44	+0.025								●	●	●	●	●					
44.990 45.105	50	+0.085 +0.045	45	-0.025 -0.050	50	+0.025								●	●	●	●	●					
49.990 50.110	55	+0.100 +0.055	50	-0.030 -0.060	55	+0.030								●		●	●	●	●				
54.990 55.110	60	+0.100 +0.055	55	-0.030 -0.060	60	+0.030										●	●	●	●				
59.990 60.110	65	+0.100 +0.055	60	-0.030 -0.060	65	+0.030											●	●	●	●	●		
64.990 65.110	70	+0.100 +0.055	65	-0.030 -0.060	70	+0.030											●	●	●	●	●		
69.990 70.110	75	+0.100 +0.055	70	-0.030 -0.060	75	+0.030												●	●	●	●	●	
74.990 75.110	80	+0.100 +0.055	75	-0.030 -0.060	80	+0.030													●	●	●	●	
80.020 80.155	85	+0.120 +0.070	80	-0.035	85	+0.035													●	●	●	●	●
85.020 85.155	90	+0.120 +0.070	85	-0.035	90	+0.035														●		●	
90.020 90.155	95	+0.120 +0.070	90	-0.035	95	+0.035														●	●		●
95.020 95.155	100	+0.120 +0.070	95	-0.035	100	+0.035														●	●		●
100.020 100.155	105	+0.120 +0.070	100	-0.035	105	+0.035														●	●		●
105.020 105.155	110	+0.120 +0.070	105	-0.035	110	+0.035															●		●
110.020 110.155	115	+0.120 +0.070	110	-0.035	115	+0.035															●		●
120.070 120.210	125	+0.170 +0.100	120	-0.040	125	+0.035															●		●
125.070 125.210	130	+0.170 +0.100	125	-0.040	130	+0.040															●		●
130.070 130.210	135	+0.170 +0.100	130	-0.040	135	+0.040															●		●
140.070 140.210	145	+0.170 +0.100	140	-0.040	145	+0.040															●		●
150.070 150.210	155	+0.170 +0.100	150	-0.040	155	+0.040															●		●
160.070 160.210	165	+0.170 +0.100	160	-0.040	165	+0.040															●		●
180.070 180.216	185	+0.210 +0.130	180	-0.046	185	+0.046															●		●

本公司可按客户要求，定制各尺寸的DYB100系列轴套。
We can design the DYB100 series bushing of different sizes according to customer requirement.

DYB100 (SF-1)

自润滑多层复合翻边轴承

SELF-LUBRICATED MULTILAYER COMPOUND FLANGE BEARING



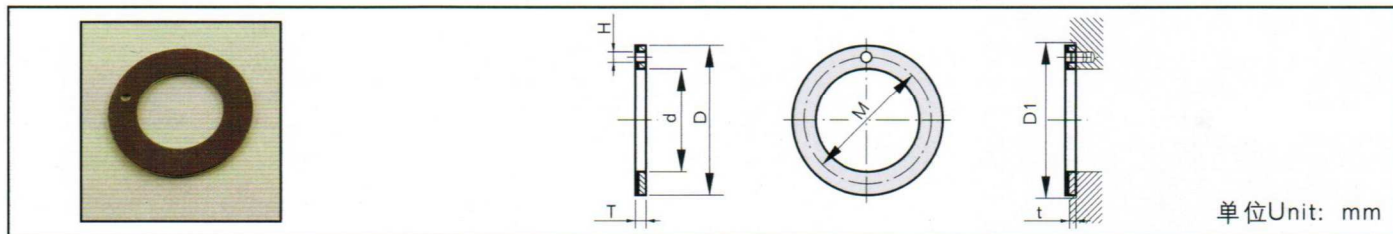
压入座孔后的 内径 I.D. after fixed	D	轴径 Shaft Dia.	座孔 Housing Bore (H7)	F±0.5	壁厚 Wall Thickness	f ₁	f ₂	L ±0.025													
								4	5.5	7	7.5	8	9	10	12	15	16	17	22	26	
5.990 6.055	8 +0.055 +0.025	6 -0.013 -0.028	8 +0.015	12				●		●		●									
7.990 8.055	10 +0.055 +0.025	8 -0.013 -0.028	10 +0.015	15					●		●	●		●							
9.990 10.058	12 +0.065 +0.030	10 -0.016 -0.034	12 +0.018	18						●			●		●	●					
11.990 12.058	14 +0.065 +0.030	12 -0.016 -0.034	14 +0.018	20						●			●		●	●		●			
13.990 14.058	16 +0.065 +0.030	14 -0.016 -0.034	16 +0.018	22	+0.005 - 0.020	0.6	0.3							●				●			
14.990 15.058	17 +0.065 +0.030	15 -0.016 -0.034	17 +0.018	23									●		●			●			
15.990 16.058	18 +0.065 +0.030	16 -0.016 -0.034	18 +0.018	24										●				●			
17.990 18.061	20 +0.075 +0.035	18 -0.016 -0.034	20 +0.021	26											●	●		●			
19.990 20.071	23 +0.075 +0.035	20 -0.020 -0.041	23 +0.021	30											●	●		●	●		
21.990 22.071	25 +0.075 +0.035	22 -0.020 -0.041	25 +0.021	32	+0.005 - 0.025	0.6	0.4								●			●	●		
24.990 25.071	28 +0.075 +0.035	25 -0.020 -0.041	28 +0.021	35											●			●	●		
29.990 30.085	34 +0.085 +0.045	30 -0.020 -0.041	34 +0.025	42	+0.005 - 0.030	1.2	0.4										●		●	●	
34.990 35.085	39 +0.085 +0.045	35 -0.025 -0.050	39 +0.025	47													●		●	●	

本公司可按客户要求，定制各尺寸的DYB100系列翻边轴承。
We can design the DYB100 series flange bushing of different sizes according to customer requirement.

DYB100(SF-1)

自润滑多层复合垫片

SELF-LUBRICATED MULTILAYER COMPOUND WASHER



规格型号 Type	轴径 Shaft Dia.	垫片尺寸 Washer dimension				安装尺寸 Installation size		
		d ^{+0.25}	D -0.25	T -0.05	M ^{+0.12 -0.12}	H	t	D1
DYB01 W 10	8	10	20	1.5	15	1.5	1	20
DYB01 W 12	10	12	24	1.5	18	1.5	1	24
DYB01 W 14	12	14	26	1.5	20	2	1	26
DYB01 W 16	14	16	30	1.5	23	2	1	30
DYB01 W 18	16	18	32	1.5	25	2	1	32
DYB01 W 20	18	20	36	1.5	28	3	1	36
DYB01 W 22	20	22	38	1.5	30	3	1	38
DYB01 W 24	22	24	42	1.5	33	3	1	42
DYB01 W 26	24	26	44	1.5	35	3	1	44
DYB01 W 28	25	28	48	1.5	38	4	1	48
DYB01 W 32	30	32	54	1.5	43	4	1	54
DYB01 W 38	35	38	62	1.5	50	4	1	62
DYB01 W 42	40	42	66	1.5	54	4	1	66
DYB01 W 48	45	48	74	2	61	4	1.5	74

本公司可按客户要求，定制各尺寸的DYB100系列垫片。
We can design the DYB100 series washer of different sizes according to customer requirement.

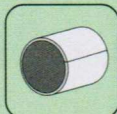
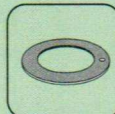
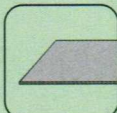
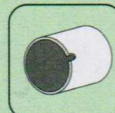
DYB200 (SF-2)

边界润滑轴套

BOUNDARY LUBRICATING BUSHING

基本特性：适用于低载高速下的旋转、摇摆运动以及在重载下经常启闭而无法加油的部位，在边界润滑条件下可长期使用而不用加油，过程加油将会大大提高轴套的使用寿命。耐磨层表面有规格的油穴可以作为储油孔使用。

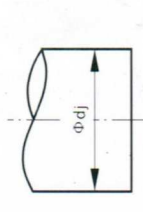
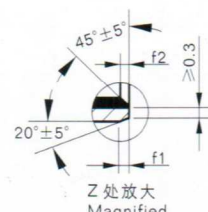
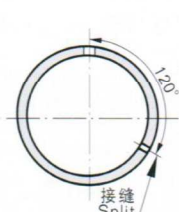
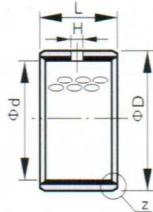
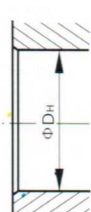
Features: Suitable for rotary and oscillating movement, lower maintenance requirements due to the long re-lubrication intervals, lower wear susceptibility to edge loading, no absorption of water and therefore no swelling, good damping behaviours, good resistance to shock loads.

技术参数 Tech. Data		代号 Grade	DYB201(SF-2)	DYB202(SF-2H)	DYB203(SF-2L)	DYB204
		材料 Material	钢+铜粉+(POM+Pb) Steel + Bronze powder + (POM+Pb)	钢+铜粉+(POM) Steel + Bronze powder + (POM)	钢+铜粉+(POM) Steel + Bronze powder + (POM)	钢+铜粉+(POM) Steel + Bronze powder + (POM)
物理机械性能 Physical and mechanical Performance	最大承载压力 Load capacity	静载 Static load	250N/mm ²	250N/mm ²	250N/mm ²	250N/mm ²
		动载 Dynamic load	140N/mm ²	140N/mm ²	140N/mm ²	140N/mm ²
		摇摆动运 Oscillating	70N/mm ²	60N/mm ²	70N/mm ²	70N/mm ²
	最高滑动速度(油润滑) Speed limit (in oil)		2.5m/s	2.5m/s	2.5m/s	2.5m/s
	最高PV值 PV value limit	油润滑 Oil lubrication	22N/mm ² .m/s	22N/mm ² .m/s	50N/mm ² .m/s	50N/mm ² .m/s
		干摩擦 Dry friction	2.8N/mm ² .m/s	2.8N/mm ² .m/s	2.8N/mm ² .m/s	2.8N/mm ² .m/s
	摩擦系数 μ Friction coef μ		0.05~0.20	0.05~0.25	0.05~0.25	0.05~0.25
	工作温度 Working temperature		-40℃~+120℃	-40℃~+130℃	-40℃~+130℃	-40℃~+130℃
	导热系数 Thermal conductivity		13W/mk	13W/mk	13W/mk	13W/mk
	线膨胀系数 Coefficient of linear expansion		11×10 ⁻⁶ /K	11×10 ⁻⁶ /K	12×10 ⁻⁶ /K	12×10 ⁻⁶ /K
主要运用领域 Typical application			该产品是以优质低碳钢板为基体，中间烧结一层多孔青铜层，表面轧制一层改性的聚甲醛（POM）混合物。能提供较好的承载性和耐磨损性。产品应用于汽车底盘、锻压机床、冶金机械、矿山、水利行业、轧钢行业等。			
可供形式 Availability			该产品是以优质低碳钢板为基体，中间烧结一层多孔青铜层，表面轧制一层改性的聚甲醛（POM）混合物。能提供较好的承载性和耐磨损性。产品应用于汽车底盘、锻压机床、冶金机械、水利行业、轧钢行业等。该材料不含铅，符合环保要求。			
 直套 Straight sets  止推垫片 Thrust pads  滑板 Skateboards  非标产品定制 Custom-made special products			   			
公差 Tolerance			相配座孔公差：H7；相配轴径公差：h8 Recommend housing tolerance H7 and the shaft as h8.			

DYB200 (SF-2)

边界润滑轴套

BOUNDARY LUBRICATING BUSHING



压入座孔后的 内径 I.D. after fixed	D	轴径(h8) Shaft Dia.	座孔(H7) Housing Bore	壁厚 Wall Thickness	油孔 Oil Hole	f ₁	f ₂	L ⁰ -0.40																	
								10	12	15	20	25	30	35	40	45	50	60	80	90	95	100			
10.040 10.108	12 ^{+0.065} +0.030	10 ^{-0.022}	12 ^{+0.018}	0.955 0.980	4	0.6	0.3	●	●	●															
12.040 12.108	14 ^{+0.065} +0.030	12 ^{-0.027}	14 ^{+0.018}		4			●	●	●															
14.040 14.108	16 ^{+0.065} +0.030	14 ^{-0.027}	16 ^{+0.018}		4				●	●															
15.040 15.108	17 ^{+0.065} +0.030	15 ^{-0.027}	17 ^{+0.018}		4				●	●	●														
16.040 16.108	18 ^{+0.065} +0.030	16 ^{-0.027}	18 ^{+0.018}		4			●	●	●															
18.040 18.111	20 ^{+0.075} +0.035	18 ^{-0.027}	20 ^{+0.021}		4			●	●	●															
20.050 20.131	23 ^{+0.075} +0.035	20 ^{-0.033}	23 ^{+0.021}	1.445 1.475	4	0.6	0.4	●	●	●	●														
22.050 22.131	25 ^{+0.075} +0.035	22 ^{-0.033}	25 ^{+0.021}		4			●		●															
25.050 25.131	28 ^{+0.075} +0.035	25 ^{-0.033}	28 ^{+0.021}		6				●	●	●														
28.060 28.155	32 ^{+0.085} +0.045	28 ^{-0.033}	32 ^{+0.025}		6				●		●														
30.060 30.155	34 ^{+0.085} +0.045	30 ^{-0.033}	34 ^{+0.025}	1.935	6	1.2	0.4		●	●	●		●												
35.060 35.155	39 ^{+0.085} +0.045	35 ^{-0.039}	39 ^{+0.025}	1.970	6				●		●	●	●												
40.060 40.155	44 ^{+0.085} +0.045	40 ^{-0.039}	44 ^{+0.025}		8					●		●		●		●									
45.080 45.195	50 ^{+0.085} +0.045	45 ^{-0.039}	50 ^{+0.025}		8					●		●		●	●	●									
50.080 50.200	55 ^{+0.100} +0.055	50 ^{-0.046}	55 ^{+0.030}		8					●		●		●											
55.080 55.200	60 ^{+0.100} +0.055	55 ^{-0.046}	60 ^{+0.030}	2.415 2.460	8					●		●		●											
60.080 60.200	65 ^{+0.100} +0.055	60 ^{-0.046}	65 ^{+0.030}		8					●		●		●											
65.080 65.200	70 ^{+0.100} +0.055	65 ^{-0.046}	70 ^{+0.030}		8								●				●								
70.080 70.200	75 ^{+0.100} +0.055	70 ^{-0.046}	75 ^{+0.030}		8								●		●		●								
75.080 75.200	80 ^{+0.100} +0.055	75 ^{-0.046}	80 ^{+0.030}		8							●				●	●								
80.100 80.265	85 ^{+0.120} +0.070	80 ^{-0.046}	85 ^{+0.035}		9.5							●				●	●								
85.100 85.265	90 ^{+0.120} +0.070	85 ^{-0.054}	90 ^{+0.035}		9.5							●				●	●								
90.100 90.265	95 ^{+0.120} +0.070	90 ^{-0.054}	95 ^{+0.035}		9.5							●				●	●	●							
100.100 100.265	105 ^{+0.120} +0.070	100 ^{-0.054}	105 ^{+0.035}		9.5									●		●	●	●		●					
105.110 105.265	110 ^{+0.120} +0.070	105 ^{-0.054}	110 ^{+0.035}		9.5											●	●			●	●				
110.110 110.265	115 ^{+0.120} +0.070	110 ^{-0.054}	115 ^{+0.035}		9.5											●	●			●	●				
120.110 120.270	125 ^{+0.170} +0.100	120 ^{-0.054}	125 ^{+0.035}	2.385 2.450	9.5	1.8	0.6										●	●			●				
125.110 125.270	130 ^{+0.170} +0.100	125 ^{-0.063}	130 ^{+0.040}		9.5														●	●			●		
130.110 130.270	135 ^{+0.170} +0.100	130 ^{-0.063}	135 ^{+0.040}		9.5															●	●	●		●	
140.110 140.270	145 ^{+0.170} +0.100	140 ^{-0.063}	145 ^{+0.040}		9.5															●	●	●		●	
150.110 150.270	155 ^{+0.170} +0.100	150 ^{-0.063}	155 ^{+0.040}		9.5															●	●	●		●	
160.110 160.270	165 ^{+0.170} +0.100	160 ^{-0.063}	165 ^{+0.040}		9.5															●	●	●		●	
170.110 170.270	175 ^{+0.170} +0.100	170 ^{-0.063}	175 ^{+0.040}		9.5															●	●	●		●	
180.110 180.276	185 ^{+0.210} +0.130	180 ^{-0.072}	185 ^{+0.040}		9.5															●	●	●		●	
190.110 190.276	195 ^{+0.210} +0.130	190 ^{-0.072}	195 ^{+0.046}		9.5												●	●	●		●				
200.110 200.276	205 ^{+0.210} +0.130	200 ^{-0.072}	205 ^{+0.046}		9.5												●	●	●		●				
220.110 220.276	225 ^{+0.210} +0.130	220 ^{-0.072}	225 ^{+0.046}		9.5												●	●	●		●				
240.110 240.276	245 ^{+0.210} +0.130	240 ^{-0.072}	245 ^{+0.046}		9.5												●	●	●		●				
250.110 250.282	255 ^{+0.260} +0.170	250 ^{-0.081}	255 ^{+0.052}		9.5												●	●	●		●				
260.110 260.282	265 ^{+0.260} +0.170	260 ^{-0.081}	265 ^{+0.052}		9.5												●	●	●		●				

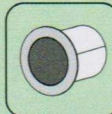
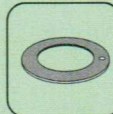
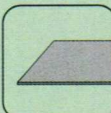
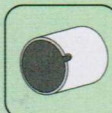
本公司可按客户要求，定制各尺寸的DYB200系列轴承。
We can design the DYB200 series bushing of different sizes according to customer requirement.

DYB300 (SJ)

双金属自润滑轴承

BIMETAL SELF-LUBRICATING BEARINGS

基本特性：它有很高的疲劳强度和承载能力，高的抗冲击力。良好的抗腐蚀性；较好的轴承表面性能

技术参数 Tech. Data		代号 Grade	DYB301(SJ-1)	DYB302(SJ-2)	DYB303(SJ-3)	
		材料 Material	钢+铜合金 (CuPb10Sn10) +PTFE Steel + Bronze alloy (CuPb10Sn10) +PTFE	钢+铜合金 (CuPb10Sn10) Steel + Bronze alloy (CuPb10Sn10)	钢+铜合金 (CuSn4Pb24) Steel + Bronze alloy (CuSn4Pb24)	
物理机械性能 Physical and mechanical Performance	最大承载压力P Load capacity		150N/mm ²	150 N/mm ²	130 N/mm ²	
	最高PV值 PV value limit	脂润滑 Grease lubrication	2.8 N/mm ² · m/s	2.8 N/mm ² · m/s	2.8 N/mm ² · m/s	
		油润滑 Oil lubrication	10 N/mm ² · m/s	10 N/mm ² · m/s	10 N/mm ² · m/s	
	最大线速度V Linear Velocity	干润滑 Dry Friction	0.4 m/s	2.5 m/s	2.5 m/s	
		脂润滑 Grease Lubrication	2.5 m/s	5 m/s	10 m/s	
	相配轴 Mating Axis	硬度 Hardness	≥ 53 HRC	≥ 53 HRC	≥ 48 HRC	
		粗糙度 Roughness	Ra=0.32~0.63	Ra=0.16~0.63	Ra=0.16~0.63	
	最高使用温度 Max Working Temperature	脂润滑 Grease Lubrication	200℃	150℃	150℃	
		油润滑 Oil Lubrication		250℃	250℃	
	抗拉强度 Anti-tensile Strength		185 N/mm ²	185 N/mm ²	150 N/mm ²	
	合金硬度 Alloy Hardness		HB 60~90	HB 60~90	HB 45~70	
	摩擦系数 Friction Coefficient		0.05~0.22	0.05~0.15	0.05~0.15	
	导热系数 Heat-conducting Coefficient		47 W/ (m · k)	47 W/ (m · k)	60 W/ (m · k)	
	热膨胀系数 Heat-expansion Coefficient		18 · 10 ⁻⁶ k ⁻¹	18 · 10 ⁻⁶ k ⁻¹	19 · 10 ⁻⁶ k ⁻¹	
主要运用领域 Typical application			该产品以优质低碳钢为基体，表面烧结铅锡青铜合金 CuSn10Pb10。合金表面轧制菱形坑穴，油穴内埋充特殊固体润滑剂，有效降低磨损。钢背根据需要进行电镀防腐层。适用于高温、水溶液浸润或其他无法加油以及加油困难的场合。			该产品以优质低碳钢为基体，表面烧结铅锡青铜合金 CuSn10Pb10。合金表面轧制球形油穴，便于储存油脂，有效降低磨损。钢背根据需要进行电镀防腐层。适用于中载、中到高速，以及有大冲击载荷的轴承，机械设备上用于卷制轴承、止推垫片、内燃机连杆活塞销轴套。
可供形式 Availability			It is backed with high quality low carbon steel, with tin-lead-bronze alloy (CuSn10Pb10) sintered on its surface. To decrease abrasion, the surface of alloy is machined with diamond shape sockets in which particular solid lubricant is filled. When necessary, the steel back can be plated with an anti-erosive coating. It's fit for applications in higher temperature and the water or other conditions that is impossible or difficult to add oil.			It is backed with high quality low carbon steel with tin-lead-bronze alloy (CuSn10Pb10) sintered on its surface. To effectively decrease abrasion, its alloy surface can be machined with ball shaped oil sockets for easier oil storage. When necessary, an anti-erosive coating can be plated on the steel back. It can be applied to conditions of mediate load with mediate or high running velocity and conditions with enormous impact load. In mechanical applications, DYB 301 is used to make wrapped bushes, thrust washer and bushes on connecting rod level of gas engine.
  						
 						
公差 Tolerance			相配座孔公差: H7 ; 相配轴径公差: f7 Recommend housing tolerance H7 and the shaft as f7 .			
						

DYB300 (SJ)

双金属自润滑轴承

BIMETAL SELF-LUBRICATING BEARINGS

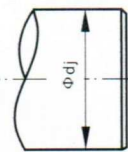
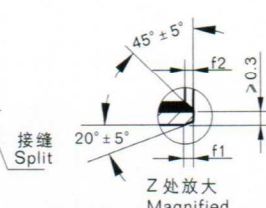
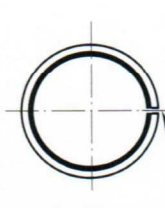
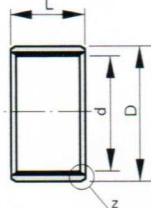
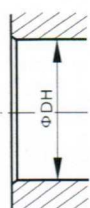
It has high fatigue strength, load capacity and impact strength. It has good corrosion resistance. Relatively good surface performance,

DYB304(SJ-4)	DYB306(SJ-5)	DYB307(SJ-1G)	DYB308(800F)
钢+铜合金 (CuPb24Sn) Steel + Bronze alloy (CuPb24Sn)	钢+铜合金 (AlSn20Cu) Steel + Alloy stage (AlSn20Cu)	钢+铜合金 (CuPb30) Steel + Bronze alloy (CuPb30)	钢+铜合金 (CuPb10Sn10) Steel + Bronze alloy (CuPb10Sn10)
130 N/mm ²	100 N/mm ²	120 N/mm ²	150 N/mm ²
2.8 N/mm ² · m/s			2.8 N/mm ² · m/s
10 N/mm ² · m/s	25 N/mm ² · m/s	8 N/mm ² · m/s	10 N/mm ² · m/s
2.5 m/s			2.5 m/s
10 m/s	25 m/s	15 m/s	5 m/s
≥ 45 HRC	≥ 270 HB	≥ 270 HB	≥ 53 HRC
Ra=0.16~0.63	Ra=0.16~0.63	Ra=0.16~0.63	Ra=0.16~0.63
150℃	150℃	170℃	150℃
250℃			250℃
170 N/mm ²	200 N/mm ²	200 N/mm ²	185 N/mm ²
HB 40~60	HB 30~40	HB 30~45	HB 60~90
0.05~0.15	0.06~0.17	0.06~0.17	0.05~0.15
60 W/ (m · k)	47 W/ (m · k)	60 W/ (m · k)	47 W/ (m · k)
19 · 10 ⁶ k ⁻¹	18 · 10 ⁶ k ⁻¹	19 · 10 ⁶ k ⁻¹	18 · 10 ⁶ k ⁻¹
该产品以优质低碳钢为基体，表面烧结铅锡青铜合金CuPb24Sn，合金表面可加工油槽，便于储油，有效降低磨损。钢背根据需要可以镀防腐层。该系列产品常用于内燃机主轴和连杆轴承、止推垫片、卷制轴承等。 It is backed with high quality low carbon steel with tin-lead-bronze alloy (CuPb24Sn) sintered on its surface. To effectively decrease abrasion, its alloy surface can be machined with oil grooves for easier oil storage. When necessary, an erosion protection coating can be plated on the steel back. In common use, DYB 303 is used to make wrapped bushes, thrust washer and bushes on connecting rod level of gas engine, etc.	该产品以优质低碳钢为基体，表面采用特殊工艺轧制铝锡合金AlSn20Cu，合金表面可加工油槽，便于储存油脂，有效降低磨损。钢背根据需要可以镀防腐层。该系列产品常用于内燃机主轴和连杆轴承、止推垫片、卷制轴承等。 It is backed with high quality low carbon steel, with aluminum-tin alloy AlSn20Cu sintered on the surface. To effectively decrease abrasion, its alloy surface can be machined with oil grooves for easier oil storage. When necessary, an erosion protection coating can be plated on the steel back. In common use, DYB 304 is used to make wrapped bushes, thrust washer and bushes on connecting rod level of gas engine, etc.	该产品以优质低碳钢为基体，表面烧结铅锡青铜合金CuPb30，合金表面可加工油槽，便于储存油脂，有效降低磨损。钢背根据需要可以镀防腐层。该系列产品常用于内燃机主轴和连杆轴承、止推垫片、卷制轴承等。 It is backed with high quality low carbon steel, with tin-lead-bronze alloy CuPb30 sintered on the surface. To effectively decrease abrasion, its alloy surface can be machined with oil grooves for easier oil storage. When necessary, an erosion protection coating can be plated on the steel back. In common use, DYB 305 is used to make wrapped bushes, thrust washer and bushes on connecting rod level of gas engine, etc.	该产品以优质低碳钢为基体，表面烧结锡青铜合金CuSn10Pb10，经多次烧结轧制而成，具有很高的疲劳强度和承载能力，高的抗冲击力。广泛应用到工程机械底盘四轮、空调压缩机等部位。特别在挖掘机四轮部位已广泛替代离心浇铸式双金属轴承。 It is made of high quality low-carbon steel, and sintered and rolled copper alloy (CuSn10Pb10) as its surface. It has high fatigue strength, load capacity and impact strength. The product is applies to con-rod of automobile engines, transmission gearbox, engineering and agriculture machinery, etc.
			

DYB300

双金属自润滑轴套

BIMETAL SELF-LUBRICATING BEARINGS



单位Unit: mm

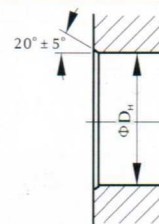
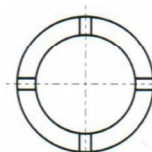
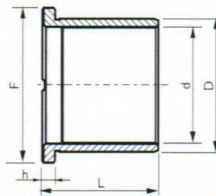
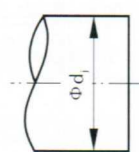
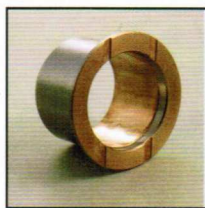
D	压入座孔后的内径 I.D. after fixed	壁厚 Wall Thickness	座孔 Housing Bore (H7)	轴径 Shaft Dia. f7	f ₁	f ₂	L ⁰ _{-0.40}											
							10	15	20	25	30	40	50	60	80	90	100	
12 ^{+0.065} _{+0.030}	10 ^{+0.022}	1 -0.025	12 ^{+0.018}	10 ^{-0.013} _{-0.028}	0.5	0.3	●	●	●									
14 ^{+0.065} _{+0.030}	12 ^{+0.027}		14 ^{+0.018}	12 ^{-0.016} _{-0.034}			●	●	●									
16 ^{+0.065} _{+0.030}	14 ^{+0.027}		16 ^{+0.018}	14 ^{-0.016} _{-0.034}			●	●	●									
17 ^{+0.065} _{+0.030}	15 ^{+0.027}		17 ^{+0.018}	15 ^{-0.016} _{-0.034}			●	●	●									
18 ^{+0.075} _{+0.035}	16 ^{+0.027}		18 ^{+0.018}	16 ^{-0.016} _{-0.034}			●	●	●									
20 ^{+0.075} _{+0.035}	18 ^{+0.033}	1.5 -0.030	20 ^{+0.021}	18 ^{-0.016} _{-0.034}	0.8	0.4	●	●	●	●								
23 ^{+0.075} _{+0.035}	20 ^{+0.033}		23 ^{+0.021}	20 ^{-0.020} _{-0.041}			●	●	●	●								
25 ^{+0.075} _{+0.035}	22 ^{+0.033}		25 ^{+0.021}	22 ^{-0.020} _{-0.041}			●	●	●	●								
27 ^{+0.075} _{+0.035}	24 ^{+0.033}		27 ^{+0.021}	24 ^{-0.020} _{-0.041}			●	●	●	●	●							
28 ^{+0.075} _{+0.035}	25 ^{+0.033}		28 ^{+0.021}	25 ^{-0.020} _{-0.041}				●	●	●	●	●						
30 ^{+0.075} _{+0.035}	26 ^{+0.033}	2 -0.035	30 ^{+0.021}	26 ^{-0.020} _{-0.041}	1.0	0.5		●	●	●	●							
32 ^{+0.085} _{+0.045}	28 ^{+0.033}		32 ^{+0.025}	28 ^{-0.020} _{-0.041}				●	●	●	●	●	●					
34 ^{+0.085} _{+0.045}	30 ^{+0.039}		34 ^{+0.025}	30 ^{-0.020} _{-0.041}				●	●	●	●	●	●					
36 ^{+0.085} _{+0.045}	32 ^{+0.039}		36 ^{+0.025}	32 ^{-0.025} _{-0.050}				●	●	●	●	●	●					
39 ^{+0.085} _{+0.045}	35 ^{+0.039}		39 ^{+0.025}	35 ^{-0.025} _{-0.050}			1.2	0.6			●	●	●	●	●			
42 ^{+0.085} _{+0.045}	38 ^{+0.039}	42 ^{+0.025}	38 ^{-0.025} _{-0.050}						●	●	●	●	●	●				
44 ^{+0.085} _{+0.045}	40 ^{+0.039}	44 ^{+0.025}	40 ^{-0.025} _{-0.050}						●	●	●	●	●	●				
50 ^{+0.085} _{+0.045}	45 ^{+0.039}	50 ^{+0.025}	45 ^{-0.025} _{-0.050}						●	●	●	●	●	●				
55 ^{+0.100} _{+0.055}	50 ^{+0.039}	55 ^{+0.030}	50 ^{-0.030} _{-0.060}								●	●	●					
60 ^{+0.100} _{+0.055}	55 ^{+0.046}	2.5 -0.040	60 ^{+0.030}	55 ^{-0.030} _{-0.060}	1.5	1.0					●	●	●	●				
65 ^{+0.100} _{+0.055}	60 ^{+0.046}		65 ^{+0.030}	60 ^{-0.030} _{-0.060}							●	●	●	●	●			
70 ^{+0.100} _{+0.055}	65 ^{+0.046}		70 ^{+0.030}	65 ^{-0.030} _{-0.060}							●	●	●	●	●			
75 ^{+0.100} _{+0.055}	70 ^{+0.046}		75 ^{+0.030}	70 ^{-0.030} _{-0.060}							●	●	●	●	●	●		
80 ^{+0.100} _{+0.055}	75 ^{+0.046}		80 ^{+0.035}	75 ^{-0.030} _{-0.060}							●	●	●	●	●	●		
85 ^{+0.120} _{+0.070}	80 ^{+0.054}	3 -0.045	85 ^{+0.035}	80 ^{-0.030} _{-0.060}	1.8	1.2						●	●	●	●			
90 ^{+0.120} _{+0.070}	84 ^{+0.054}		90 ^{+0.035}	84 ^{-0.036} _{-0.071}								●	●	●	●	●		
95 ^{+0.120} _{+0.070}	89 ^{+0.054}		95 ^{+0.035}	89 ^{-0.036} _{-0.071}									●	●	●	●	●	
100 ^{+0.120} _{+0.070}	94 ^{+0.054}		100 ^{+0.035}	94 ^{-0.036} _{-0.071}										●	●	●	●	●
105 ^{+0.120} _{+0.070}	99 ^{+0.054}		105 ^{+0.035}	99 ^{-0.036} _{-0.071}											●	●	●	●
110 ^{+0.120} _{+0.070}	104 ^{+0.054}	3.5 -0.050	110 ^{+0.035}	104 ^{-0.036} _{-0.071}	2	1.5							●	●	●	●		
115 ^{+0.120} _{+0.070}	109 ^{+0.054}		115 ^{+0.035}	109 ^{-0.036} _{-0.071}											●	●	●	●
120 ^{+0.120} _{+0.070}	114 ^{+0.054}		120 ^{+0.040}	114 ^{-0.036} _{-0.071}												●	●	●
125 ^{+0.170} _{+0.100}	119 ^{+0.054}		125 ^{+0.040}	119 ^{-0.036} _{-0.071}													●	●
130 ^{+0.170} _{+0.100}	123 ^{+0.054}		130 ^{+0.040}	123 ^{-0.043} _{-0.083}														●
135 ^{+0.170} _{+0.100}	128 ^{+0.063}	3.5 -0.050	135 ^{+0.040}	128 ^{-0.043} _{-0.083}	2	1.5								●	●	●	●	
140 ^{+0.170} _{+0.100}	133 ^{+0.063}		140 ^{+0.040}	133 ^{-0.043} _{-0.083}												●	●	●
145 ^{+0.170} _{+0.100}	138 ^{+0.063}		145 ^{+0.040}	138 ^{-0.043} _{-0.083}													●	●
150 ^{+0.170} _{+0.100}	143 ^{+0.063}		150 ^{+0.040}	143 ^{-0.043} _{-0.083}													●	●
155 ^{+0.170} _{+0.100}	148 ^{+0.063}		155 ^{+0.040}	148 ^{-0.043} _{-0.083}														●
160 ^{+0.170} _{+0.100}	153 ^{+0.063}	3.5 -0.050	160 ^{+0.040}	153 ^{-0.043} _{-0.083}	2	1.5									●	●	●	
165 ^{+0.170} _{+0.100}	158 ^{+0.063}		165 ^{+0.040}	158 ^{-0.043} _{-0.083}													●	●

本公司可按客户要求，定制各尺寸的DYB300系列轴套。
We can design the DYB300 series bushing of different sizes according to customer requirement.

DYB308

标准公制焊接轴套

NORMAL METRIC FLANGE BUSHING



单位Unit: mm

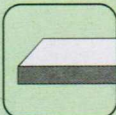
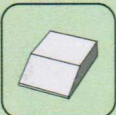
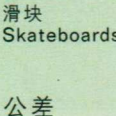
规格型号 Type	F	D	d	L	h
M4040	60	46	40	39.5	3.5
M4035	62	47	40	35	3.5
M4055	68	55	45	55	3.5
M5040	72	57	50	40	3.5
M5050	70	57	50	50	3.5
M5460	92	60.6	54	60	3.5
M6053	83	67	60	53	3.5
M6060	87	67	60	60	3.5
M6065	77	67	60	65	3.5
M6060	88	68	60	60	4.0
M6465	102.6	70.4	63.5	65	3.5
M6473	103	70.8	63.8	73	3.5
M6553	85	72	65	53	3.5
M6564	87	72	65	64	3.5
M6575	108	72	65	75	3.5
M7060	93	77	70	60	3.5
M7090	108	80	70	90	5.0
M7560	100	82	75	60	3.5
M8060	105	87	80	68	3.5
M8580	127	92	85	80	3.5
M85103	128	92.6	85	103.5	3.5
M89126	138	97.5	89.2	126.5	4.2
M95127	144	105	95	127	5.0

本公司可按客户要求，定制各尺寸的DYB308翻边轴套。
We can design the DYB308 series flange bushing of different sizes according to customer requirement.

DYB500 (JDB)

镶嵌式固体润滑轴承
Solid Lubricating Bearing

基本特性：铜合金镶嵌式固体润滑轴承，结合了铜合金的耐磨性及固体润滑剂的自润滑性能，使其在使用过程中无需加油维护。产品被广泛用于高载、间歇性或摇摆运动，如汽机车生产流水线、水轮机、水库工作、事故门、塑胶机械等。根据使用的工况，DYB可以提供各种类型的铜合金。

技术参数 Tech. Data		代号 Grade	DYB500	DYB501	DYB502
		材料 Material	高力黄铜+石墨 CuZn25Al6Fe3Mn3+Graphite	高力黄铜+石墨 CuZn25Al6Fe3Mn3+Graphite	高力黄铜+石墨 CuZn25Al6Fe3Mn3+Graphite
物理机械性能 Physical and mechanical Performance	密度 Density		8.2 g/cm ³	8.2 g/cm ³	8.2 g/cm ³
	线膨胀系数 Linear Expansion Coefficient		1.6-2.0 10 ⁻⁵ /°C	1.6-2.0 10 ⁻⁵ /°C	1.6-2.0 10 ⁻⁵ /°C
	导热系数 Heat-conducting Coefficient		38-55 W/(m.k)	38-55 W/(m.k)	38-55 W/(m.k)
	抗拉强度 Tensile Strength		≥755 N/mm ²	≥800 N/mm ²	≥850 N/mm ²
	冲击韧性 Anti-compact Tenacity		≥400-500 KJ/m ³	≥400-500 KJ/m ³	≥300-400 KJ/m ³
	硬度 Hardness		≥210 HB	≥235 HB	≥260 HB
	弹性系数 Flexibility Coefficient		100-140 KN/mm ²	120-140 KN/mm ²	80-120 KN/mm ²
	延伸率 Tensility		≥12%	≥6%	≥2%
	摩擦系数 Friction	油润滑 Oil Lubrication	0.03 μ	0.03 μ	0.03 μ
		干摩擦 Dry Friction	0.16 μ	0.16 μ	0.16 μ
	使用温度范围 Working Temperature Limits		-40~+300°C	-40~+300°C	-40~+300°C
	最高承载压力P Max Load Pressure		100 N/mm ²	100 N/mm ²	130 N/mm ²
	最高线速度V Max Linear Velocity		0.50 m/s	0.50 m/s	0.30 m/s
	最高PV值 Max PV Value		1.65 N/mm ² .m/s	1.65 N/mm ² .m/s	1.65 N/mm ² .m/s
主要运用领域 Typical application			该产品以特殊配方的高力黄铜为基体有很高的力学性能、铸造性能良好、耐蚀性较好，表面按一定的角度和密度镶嵌特殊配方的固体润滑剂，经精密加工而成。产品广泛应用于连铸机、矿山机械、船舶、气轮机等。	该产品以特殊配方的高力黄铜为基体有很高的力学性能、铸造性能良好，在空气、淡水和海水中耐蚀性较好，表面按一定的角度和密度镶嵌特殊配方的固体润滑剂，经精密加工而成。产品广泛应用于连铸机、矿山机械、船舶、气轮机等。	该产品以特殊配方的高强度铜合金为基体，表面按一定的角度和密度镶嵌特殊配方的固体润滑剂，经精密加工而成。产品广泛应用于连铸轧机、矿山机械、船舶、气轮机、注塑机械、汽车模具。
可供形式 Availability			It is backed with strengthening brass that has good physical performance and good capability for casting. What's more, the brass backing has pretty good anti-erosion ability in air, fresh water and seawater. The surface is regularly and finely machined with sockets in which particular solid lubricant is filled. The product is widely used on consecutive casting and rolling machines, mine-exploiting equipments, ships, steam engine, etc.	It is backed with strengthening brass that has good physical performance and good capability for casting. What's more, the brass backing has pretty good anti-erosion ability in air, fresh water and seawater. The surface is regularly and finely machined with sockets in which particular solid lubricant is filled. The product is widely used on consecutive casting and rolling machines, mine-exploiting equipments, ships, steam engine, etc.	It is backed with high strength copper alloy. The surface is regularly and finely machined with sockets in which particular solid lubricant is filled. The product is widely used on consecutive casting and rolling machines, mine-exploiting equipments, ships, steam engine, injection molders and auto molds.
 直套 Straight sets		 翻边 Flange	 垫片 Thrust pads	 滑块 Skateboards	 非标产品定制 Custom-made special products
 公差 Tolerance					
相配座孔公差：F7；相配轴径公差：m6 Recommend housing tolerance F7 and the shaft as m6.					

DYB500 (JDB)

镶嵌式固体润滑轴承 Solid Lubricating Bearing

Features: This material provides a maintenance free and low friction bearing solution, particularly for high load and intermittent oscillating motion. Solid lubricants within the bronze combine the strength of the bronze with the wear resistance of the graphite. Applications covered are automotive production lines. Water industry, dam gates, plastic moulding machinery etc. Different types of bronze alloy can be offered according to the application.

DYB503	DYB504	DYB505	DYB506	DYB509
铝青铜+石墨 ZCuAl9Fe4Ni4Mn2+Graphite	锡青铜+石墨 ZCuSn5AlPb5Zn5+Graphite	锡青铜+石墨 ZCuSn10Zn2+Graphite	HT250铸铁+石墨 250# Castiron+Graphite	高力黄铜 CuZn25Al6Fe3Mn3
8.5 g/cm ³	8.7 g/cm ³	8.0 g/cm ³	7.35 g/cm ³	8.7 g/mm ³
1.7-1.9 10 ⁻⁵ /°C	1.6-1.8 10 ⁻⁵ /°C	1.8-2.0 10 ⁻⁵ /°C	0.8-1.2 10 ⁻⁵ /°C	1.85 10 ⁻⁵ /°C
38-55 W/(m.k)	46-63 W/(m.k)	50-68 W/(m.k)	42-55 W/(m.k)	52 W/(m.k)
≥590 N/mm ²	≥240 N/mm ²	≥290 N/mm ²	≥250 N/mm ²	230 N/mm ²
≥150-250 KJ/m ³	≥100-200 KJ/m ³	≥300 KJ/m ³	≥20-40 KJ/m ³	
≥160 HB	≥60 HB	≥90 HB	≥180 HB	60~80 HB
90-110 KN/mm ²	85-115 KN/mm ²	90-125 KN/mm ²	100-130 KN/mm ²	
≥15%	≥15%	≥9%	≥12%	
0.03 μ	0.03 μ	0.03 μ	0.03 μ	
0.16 μ	0.16 μ	0.16 μ	0.16 μ	
-250~+400°C	-40~+250°C	-40~+300°C	-40~+400°C	-40~+150°C
50 N/mm ²	40 N/mm ²	45 N/mm ²	70N/mm ²	90 N/mm ²
0.25 m/s	0.40 m/s	0.50 m/s	0.15 m/s	
1.25 N/mm ² .m/s	1.00 N/mm ² .m/s	1.20 N/mm ² .m/s	0.50 N/mm ² .m/s	
该产品以铝青铜为基体有很高的力学性能、铸造性能良好、耐蚀性较好，表面按一定的角度和密度镶嵌特殊配方的固体润滑剂，经精密加工而成。产品主要应用于在较高负荷，中等滑动速度下工作的耐磨、耐腐蚀零件，如轻工机械、机床行业、烘炉滚道、壁炉门等。 It is backed with aluminum-bronze alloy with good capability of mechanics, castings and anti anti-erosion. The surface is regularly and finely machined with sockets in which particular solid lubricant is filled. The product is widely used in condition with mediate load but higher temperature and condition with mediate running velocity.	该产品以锡青铜为基体，表面按一定的角度和密度镶嵌特殊配方的固体润滑剂，经精密加工而成。产品主要应用于在较高负荷，中等滑动速度下工作的耐磨、耐腐蚀零件，如轻工机械、机床行业、烘炉滚道、壁炉门等。 It is backed with tin-bronze. The surface is regularly and finely machined with sockets in which particular solid lubricant is filled. It is mainly applied on the anti-abrasion and anti-erosion parts, which work in conditions with heavier load and mediate running velocity. For instance, on light industrial machines, machine tools, moving belt in the drying machine, door of the fireplace.	该产品以锡青铜为基体，表面按一定的角度和密度镶嵌特殊配方的固体润滑剂，经精密加工而成。产品主要应用于低载、高温、中速场合，如建筑机械、冶金机械、输送机械中的不加油润滑部位等。 It is backed with tin-bronze. The surface is regularly and finely machined with sockets in which particular solid lubricant is filled. Products of DYB505 series are mainly used in conditions of light load, high temperature and mediate running velocity. For instance, on no oil parts on the building, metallurgy and transportation machines.	该产品以铸铁为基体，表面按一定的角度和密度镶嵌特殊配方的固体润滑剂，经精密加工而成。是一种典型的省材产品，能大大降低成本，满足使用要求。产品用于汽车模具及注塑机模架。 It is backed with cast iron. The surface is regularly and finely machined with sockets in which solid lubricant is filled. DYB506 is a typical energy saving product, which could reduce energy consumption cost while meet application requirements. It can be applied to auto molds and frame of the injection molders.	该产品以铜合金为基体，产品广泛应用于机器工具、农业机械、起重机、电动摩托、弹簧栓轴套、转向轴轴套和传动装置等。 It is based on the copper alloy. This kind of products are widely used in machinetool, agricultural machinery, crane electromotor, spring pin, steering shaft and transmission, etc.
				

DYB500 (JDB)

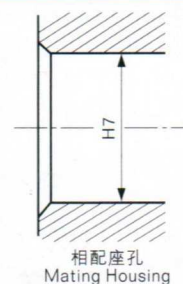
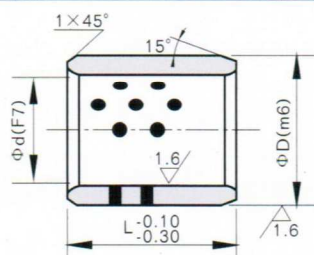
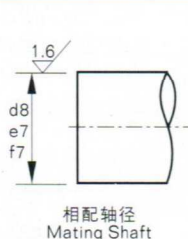
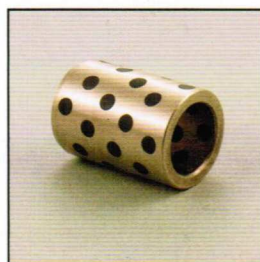
镶嵌式固体润滑轴承 Solid Lubricating Bearing

Features: This material provides a maintenance free and low friction bearing solution, particularly for high load and intermittent oscillating motion. Solid lubricants within the bronze combine the strength of the bronze with the wear resistance of the graphite. Applications covered are automotive production lines. Water industry, dam gates, plastic moulding machinery etc. Different types of bronze alloy can be offered according to the application.

DYB503	DYB504	DYB505	DYB506	DYB509
铝青铜+石墨 ZCuAl9Fe4Ni4Mn2+Graphite	锡青铜+石墨 ZCuSn5AlPb5Zn5+Graphite	锡青铜+石墨 ZCuSn10Zn2+Graphite	HT250铸铁+石墨 250# Castiron+Graphite	高力黄铜 CuZn25Al6Fe3Mn3
8.5 g/cm ³	8.7 g/cm ³	8.0 g/cm ³	7.35 g/cm ³	8.7 g/mm ³
1.7-1.9 10 ⁻⁵ /°C	1.6-1.8 10 ⁻⁵ /°C	1.8-2.0 10 ⁻⁵ /°C	0.8-1.2 10 ⁻⁵ /°C	1.85 10 ⁻⁵ /°C
38-55 W/(m.k)	46-63 W/(m.k)	50-68 W/(m.k)	42-55 W/(m.k)	52 W/(m.k)
≥590 N/mm ²	≥240 N/mm ²	≥290 N/mm ²	≥250 N/mm ²	230 N/mm ²
≥150-250 KJ/m ³	≥100-200 KJ/m ³	≥300 KJ/m ³	≥20-40 KJ/m ³	
≥160 HB	≥60 HB	≥90 HB	≥180 HB	60~80 HB
90-110 KN/mm ²	85-115 KN/mm ²	90-125 KN/mm ²	100-130 KN/mm ²	
≥15%	≥15%	≥9%	≥12%	
0.03 μ	0.03 μ	0.03 μ	0.03 μ	
0.16 μ	0.16 μ	0.16 μ	0.16 μ	
-250~+400°C	-40~+250°C	-40~+300°C	-40~+400°C	-40~+150°C
50 N/mm ²	40 N/mm ²	45 N/mm ²	70N/mm ²	90 N/mm ²
0.25 m/s	0.40 m/s	0.50 m/s	0.15 m/s	
1.25 N/mm ² .m/s	1.00 N/mm ² .m/s	1.20 N/mm ² .m/s	0.50 N/mm ² .m/s	
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DYB500 (JDB)

镶嵌式固体润滑轴承
Solid Lubricating Bearing



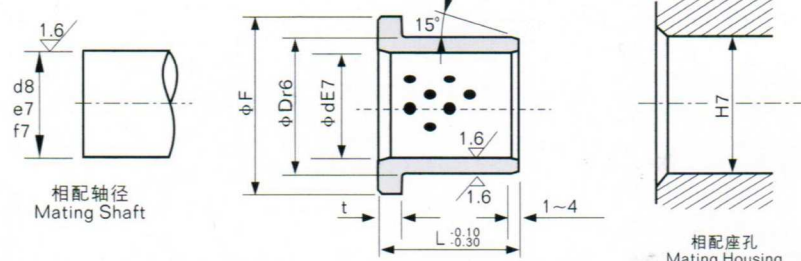
单位Unit: mm

Φd	公差 (F7)	ΦD	公差 (m6)	L																			
				8	10	12	15	20	25	30	35	40	50	60	70	80	90	100	120	140	160	180	200
8	+0.028 +0.013	12	+0.018 +0.007	●	●	●	●																
10	+0.028 +0.013	14	+0.018 +0.007	●	●	●	●	●															
12	+0.034 +0.016	18	+0.018 +0.007	●	●	●	●	●	●														
14	+0.034 +0.016	20	+0.021 +0.008		●	●	●	●	●	●													
16	+0.034 +0.016	22	+0.021 +0.008		●	●	●	●	●	●	●	●											
20	+0.041 +0.020	28	+0.021 +0.008			●	●	●	●	●	●	●	●										
20	+0.041 +0.020	30	+0.021 +0.008			●	●	●	●	●	●	●	●										
25	+0.041 +0.020	33	+0.025 +0.009				●	●	●	●	●	●	●	●									
25	+0.041 +0.020	35	+0.025 +0.009				●	●	●	●	●	●	●	●									
30	+0.041 +0.020	38	+0.025 +0.009					●	●	●	●	●	●	●									
30	+0.041 +0.020	40	+0.025 +0.009					●	●	●	●	●	●	●									
35	+0.050 +0.025	45	+0.025 +0.009						●	●	●	●	●	●	●								
40	+0.050 +0.025	50	+0.025 +0.009							●	●	●	●	●	●	●							
40	+0.050 +0.025	55	+0.030 +0.011							●	●	●	●	●	●	●	●						
45	+0.050 +0.025	55	+0.030 +0.011							●	●	●	●	●	●	●	●						
45	+0.050 +0.025	56	+0.030 +0.011							●	●	●	●	●	●	●	●						
45	+0.050 +0.025	60	+0.030 +0.011							●	●	●	●	●	●	●	●						
50	+0.050 +0.025	60	+0.030 +0.011							●	●	●	●	●	●	●	●						
50	+0.050 +0.025	65	+0.030 +0.011							●	●	●	●	●	●	●	●						
55	+0.060 +0.030	70	+0.030 +0.011								●	●	●	●	●	●	●	●					
60	+0.060 +0.030	75	+0.030 +0.011								●	●	●	●	●	●	●	●					
65	+0.060 +0.030	80	+0.030 +0.011									●	●	●	●	●	●	●	●				
70	+0.060 +0.030	85	+0.035 +0.013										●	●	●	●	●	●	●				
70	+0.060 +0.030	90	+0.035 +0.013										●	●	●	●	●	●	●				
75	+0.060 +0.030	90	+0.035 +0.013										●	●	●	●	●	●	●	●			
75	+0.060 +0.030	95	+0.035 +0.013										●	●	●	●	●	●	●	●			
80	+0.060 +0.030	100	+0.035 +0.013											●	●	●	●	●	●	●	●		
85	+0.071 +0.036	100	+0.035 +0.013											●	●	●	●	●	●	●	●		
90	+0.071 +0.036	110	+0.035 +0.013											●	●	●	●	●	●	●	●		
100	+0.071 +0.036	120	+0.035 +0.013												●	●	●	●	●	●	●		
110	+0.071 +0.036	130	+0.040 +0.015												●	●	●	●	●	●	●		
120	+0.071 +0.036	140	+0.040 +0.015													●	●	●	●	●	●		
130	+0.083 +0.043	150	+0.040 +0.015													●	●	●	●	●	●		
140	+0.083 +0.043	160	+0.040 +0.015														●	●	●	●	●		
150	+0.083 +0.043	170	+0.040 +0.015														●	●	●	●	●		
160	+0.083 +0.043	180	+0.040 +0.015														●	●	●	●	●		
170	+0.083 +0.043	190	+0.046 +0.017															●	●	●	●		
180	+0.083 +0.043	200	+0.046 +0.017																●	●	●		
190	+0.096 +0.050	210	+0.046 +0.017																	●	●		

本公司可按客户要求，定制各尺寸的DYB500系列轴套。
We can design the DYB500 series bushing of different sizes according to customer requirement.

DYB500 (JDB)

镶嵌式固体润滑轴承
Solid Lubricating Bearing



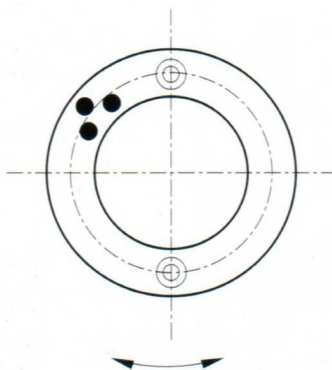
单位Unit: mm

Φd	公差 Tolerance (E7)	ΦD	公差 Tolerance (r6)	ΦF	t	L																	
						10	12	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100
8	+0.04 +0.025	12	+0.034 +0.023	20	2	●	●	●															
10	+0.04 +0.025	14	+0.034 +0.023	22	2	●	●	●	●														
12	+0.05 +0.032	18	+0.034 +0.023	25	3	●	●	●	●	●													
14	+0.05 +0.032	20	+0.041 +0.028	27	3	●	●	●	●	●	●												
16	+0.05 +0.032	22	+0.041 +0.028	29	3	●	●	●	●	●	●												
18	+0.05 +0.032	24	+0.041 +0.028	32	3		●	●	●	●	●	●											
20	+0.061 +0.04	28	+0.041 +0.028	35	3			●	●	●	●	●	●										
20	+0.061 +0.04	30	+0.041 +0.028	40	5			●	●	●	●	●	●										
25	+0.061 +0.04	35	+0.05 +0.034	45	5			●	●	●	●	●	●	●									
30	+0.061 +0.04	40	+0.05 +0.034	50	5				●	●	●	●	●	●	●								
31.5	+0.075 +0.05	40	+0.05 +0.034	50	5				●	●	●	●	●	●	●								
35	+0.075 +0.05	45	+0.05 +0.034	60	5					●	●	●	●	●	●								
40	+0.075 +0.05	50	+0.05 +0.034	65	5					●	●	●	●	●	●	●							
45	+0.075 +0.05	55	+0.06 +0.041	70	5						●	●	●	●	●	●	●						
50	+0.075 +0.05	60	+0.06 +0.041	75	5						●	●	●	●	●	●	●	●					
55	+0.09 +0.06	65	+0.06 +0.041	80	5						●	●	●	●	●	●	●	●	●				
60	+0.09 +0.06	75	+0.062 +0.043	90	7.5							●	●	●	●	●	●	●	●	●			
65	+0.09 +0.06	80	+0.062 +0.043	95	7.5							●			●	●	●	●	●	●	●		
70	+0.09 +0.06	85	+0.073 +0.051	105	7.5										●	●	●	●	●	●	●		
75	+0.09 +0.06	90	+0.073 +0.051	110	7.5											●	●	●	●	●	●	●	
80	+0.09 +0.06	100	+0.073 +0.051	120	10												●	●	●	●	●	●	
90	+0.107 +0.072	110	+0.076 +0.054	130	10												●	●	●	●	●	●	
100	+0.107 +0.072	120	+0.076 +0.054	150	10													●	●	●	●	●	
120	+0.107 +0.072	140	+0.088 +0.063	170	10														●	●	●	●	
130	+0.125 +0.085	150	+0.090 +0.065	180	10															●	●	●	
140	+0.125 +0.085	160	+0.090 +0.065	190	10																●	●	
150	+0.125 +0.085	170	+0.093 +0.068	200	10																	●	
160	+0.125 +0.085	180	+0.093 +0.068	210	10																		

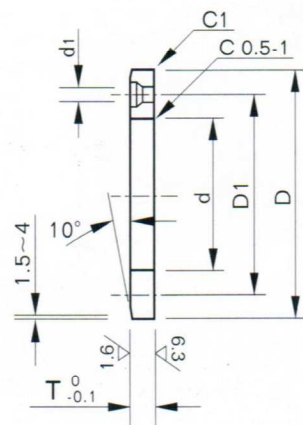
本公司可按客户要求，定制各尺寸的DYB500系列翻边轴套。
We can design the DYB500 series flange bushing of different sizes according to customer requirement.

DYB500 (JDB)

镶嵌式固体润滑轴承
Solid Lubricating Bearing



运动方向
Sliding direction



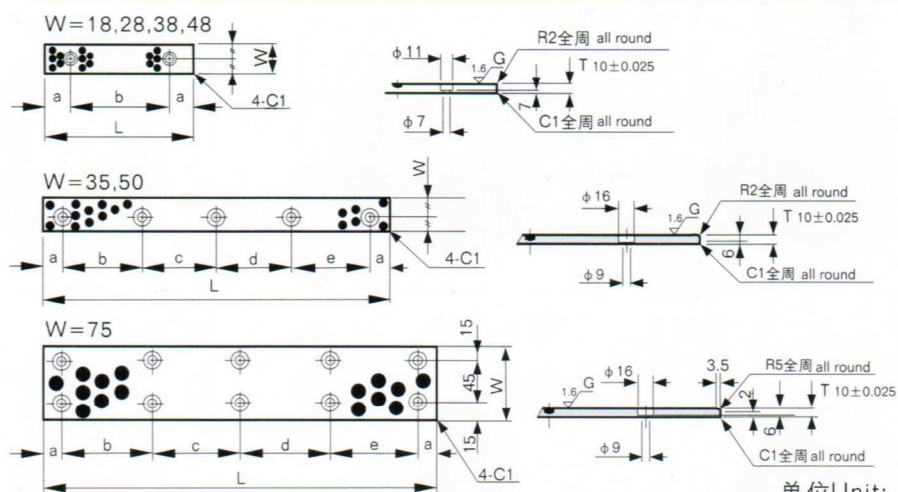
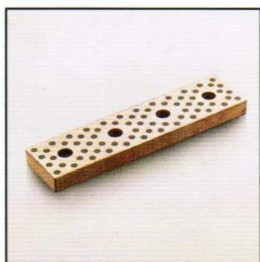
单位Unit: mm

规格型号 Type	d $\begin{smallmatrix} +0.2 \\ +0.1 \end{smallmatrix}$	D	T $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	螺钉 Bolt			
				D1	Q`ty	Size	d1
JTW-10	10.2	30		—	—	—	—
JTW-12	12.2						
JTW-13	13.2	40		28			
JTW-14	14.2		3		2	M3	3.5
JTW-15	15.2			35			
JTW-16	16.2						
JTW-16N	16.2	50		—	—	—	—
JTW-18	18.2			35	2	M3	3.5
JTW-20	20.2					M5	6
JTW-20N	20.2			—	—	—	—
JTW-25	25.2	55	5	40	2	M5	6
JTW-25N	25.2			—	—	—	—
JTW-30	30.2	60		45		M5	6
JTW-35	35.2	70		50	2		
JTW-40	40.2	80	7	60			
JTW-45	45.2	90		70		M6	7
JTW-50	50.3	100		75			
JTW-55	55.3	110	8	85			
JTW-60	60.3	120		90			
JTW-65	65.3	125		95			
JTW-70	70.3	130		100	4	M8	9
JTW-75	75.3	140		110			
JTW-80	80.3	150	10	120			
JTW-90	90.5	170		140			
JTW-100	100.5	190		160		M10	11
JTW-120	120.5	200		175			

本公司可按客户要求，定制各尺寸的DYB500系列垫片。
We can design the DYB500 series washer of different sizes according to customer requirement.

DYB500 (JDB)

镶嵌式固体润滑轴承
Solid Lubricating Bearing



规格型号 Type	W	L	a	b	c	d	e	平头螺钉 Flat Head Screw	孔数 No.of Holes
JSP-1875	18	75	15	45				M6	2
JSP-18100		100		50					
JSP-18125		125	25	75					
JSP-18150		150		100					
JSP-2875	28	75	15	45				M6	2
JSP-28100		100		50					
JSP-28125		125	25	75					
JSP-28150		150		100					
JSP-35100	35	100		60				M8	3
JSP-35150		150		55	55				
JSP-35200		200	20	55	50	55			
JSP-35250		250		70	70	70			4
JSP-35300		300		65	65	65	65		
JSP-35350		350		80	75	75	80		5
JSP-3875	38	75	15	45				M6	2
JSP-38100		100		50					
JSP-38125		125	25	75					
JSP-38150		150		100					
JSP-4875	48	75	15	45				M6	2
JSP-48100		100		50					
JSP-48125		125	25	75					
JSP-48150		150		100					
JSP-50100	50	100		60				M8	3
JSP-50150		150		55	55				
JSP-50200		200		55	50	55			
JSP-50250		250		70	70	70			4
JSP-50300		300		65	65	65	65		
JSP-50400		400	20	90	90	90	90		5
JSP-75150	75	150		110				M8	4
JSP-75200		200		80	80				
JSP-75250		250		105	105				
JSP-75300		300		85	90	85			6
JSP-75400		400		120	120	120			
JSP-75500		500		115	115	115	115		

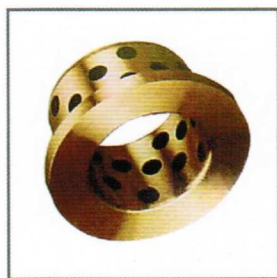
本公司可按客户要求，定制各尺寸的DYB500系列滑块。
We can design the DYB500 series bushing of different sizes according to customer requirement.

DYB500 (JDB)

镶嵌式固体润滑轴承
Solid Lubricating Bearing



JDB



JFB



JTW



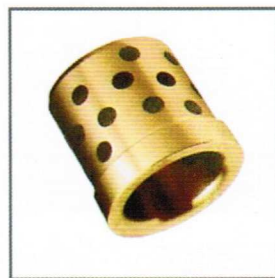
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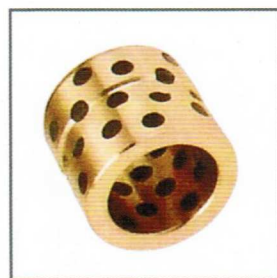
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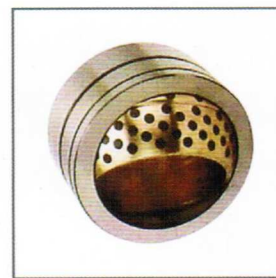
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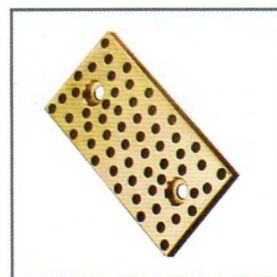
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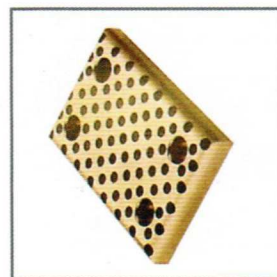
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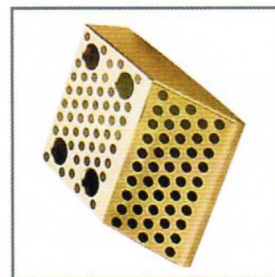
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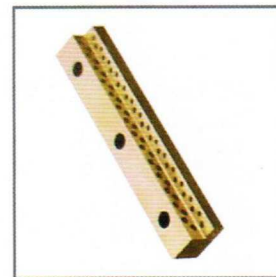
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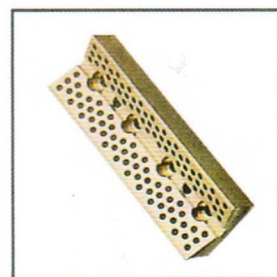
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JSPW



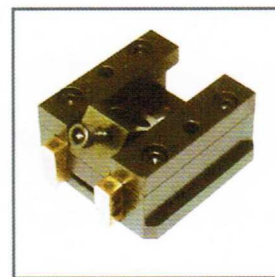
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JCBS



JCBSP



JOCU-S



FZ

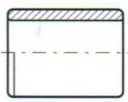
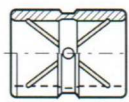
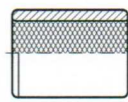
DYB600

钢套

Steel Bushing

基本特征：该产品以钢为基体，经表面高频调质处理后，大幅度提高了轴承的硬度和耐磨性。广泛应用于工程机械油缸中。

Features: This product is based on steel, After quenched and tempered, the surface toughness and wear-resistant have been improved. It is used in oil cylinder of the engineering machinery.

技术参数 Tech. Data		代号 Grade	DYB601	DYB602	DYB603
		材料 Material	SPCC/SUS304	45、40r、20、20Cr、GCr15	45、40Cr、GCr15, ect.
物理机械性能 Physical and mechanical Performance	硬度 Hardness		≥HV600	40~46HRC、52~62HRC	40~62HRC
	热处理方式 Heat treatment			淬火、渗碳淬火、内孔高频淬火，内表面可作磷化处理 Quenched; quenched with carbon; high-frequent quenched inner surface;	整体淬火、内表面可作磷化处理 Overall quenched; inner surface can be phosphatized.
	摩擦系数 Friction coefficient			<0.17	<0.17
	最高使用温度 Max temperature		350℃	350℃	350℃
	极限动载荷 Max load capacity		150N/mm ²	150N/mm ²	250N/mm ²
主要运用领域 Typical application			该产品用优质低碳或不锈钢，使用特殊工艺加工而成。产品广泛应用于汽车部件、重型机械等。 It is made of high quality low-carbon steel or stainless steel with a special technique. It is widely applied to automobile parts, heavy-duty machinery etc.	十字油线能够使轴与轴套间很好地形成油膜，具有很高的抗压、耐磨性能，适用于挖掘机、起重机等工程机械的重载关节部位。 Cross oil groove can form the oil film between shaft and bush. It has high load capacity and wear resistance. The product is applied in excavators, cranes and some crucial parts of the construction machine.	新一代工程机械轴套产品。能很好地避免轴套内表面的润滑盲区，由于油线密布，储油丰富，可有效延长加油间隔时间，具有较高的抗压、耐磨性能和优异的润滑性能，适用于挖掘机、装载机等工程机械的很重要关节部位。 It is a new generation of construction machinery bushing. It can remove the lubricating blind spot on inner surface. The widespread oil grooves increase storage of oil, which can prolong the interval of filling. The bushing has high load capacity, wear resistance and good lubricating performance. It can be applied in excavators, loaders and some crucial parts of construction machine.
可供形式 Availability					
 直套 Straight sets					
			 平板型 Planar	 十字型 Crosshair	 网状 Reticular
					

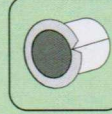
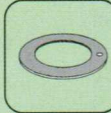
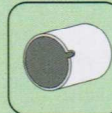
DYB900

青铜卷制轴承

BRONZE WRAPPED BUSHING

基本特性：具有密度高、承载压力大、耐磨性能好、使用寿命长。以取代传统的铸造铜套，可以缩小机械体积，降低成本。

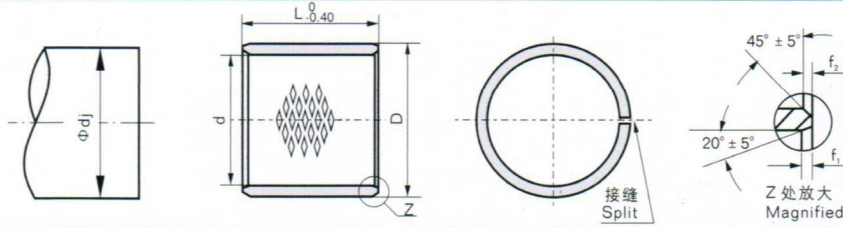
Features: It is of high load capacity and long life. In place of traditional bronze bush, it is more cheap and more compact.

技术参数 Tech. Data		代号 Grade	DYB900 (FB090)	DYB901 (FB091)	DYB902 (FB092)	DYB904 (FB094)	DYB905 (FB090G)					
		材料 Material	CuSn8P / CuSn6.5P	CuZn31Si	CuSn8P / CuSn6.5P	CuSn8P / CuSn6.5P	CuSn8P / CuSn6.5P					
物理机械性能 Physical and mechanical Performance	相配轴 Mating Axis	硬度 Hardness	≥ 50HRC	≥ 50HRC	≥ 50HRC	≥ 50HRC	≥ 50HRC					
		粗糙度 Roughness	0.4~1.0	0.4~1.0	0.4~1.0	0.4~1.0	0.4~1.0					
	最大承载 Max Load Pressure		100N/mm ²	90N/mm ²	100N/mm ²	100N/mm ²	100N/mm ²					
	最高线速度 Max Linear Velocity		2m/s	2m/s	2m/s	2m/s	2m/s					
	最高PV值 Max PV Value		2.8N/mm ² · m/s	2.8N/mm ² · m/s	2.8N/mm ² · m/s	2.8N/mm ² · m/s	2.8N/mm ² · m/s					
	抗拉强度 Tensile Strength		460N/mm ²	440N/mm ²	460N/mm ²	460N/mm ²	460N/mm ²					
	屈服强度 Yield Strength		260N/mm ²	230N/mm ²	260N/mm ²	260N/mm ²	260N/mm ²					
	硬度 Hardness		90~150HB	90~150HB	90~150HB	90~150HB	90~150HB					
	适用温度 Working Temperature		150℃	150℃	150℃	150℃	150℃					
	摩擦系数 Friction Coefficient		0.05~0.2 μ	0.05~0.2 μ	0.05~0.2 μ	0.05~0.2 μ	0.05~0.2 μ					
	导热系数 Heat Conducting Coefficient		58W/(m · k)	71W/(m · k)	58W/(m · k)	58W/(m · k)	58W/(m · k)					
	热膨胀系数 Heat Expansion Coefficient		18.5 (10 ⁻⁶ k ⁻¹)	19.2 (10 ⁻⁶ k ⁻¹)	18.5 (10 ⁻⁶ k ⁻¹)	18.5 (10 ⁻⁶ k ⁻¹)	18.5 (10 ⁻⁶ k ⁻¹)					
主要运用领域 Typical application			DYB900铜合金轴承，以高密度锡青铜为材料，表面轧制菱形或球形油穴，起储存油脂作用。它具有良好的疲劳强度和承载能力、耐腐蚀、抗磨损。广泛运用于农业机械、建筑机械、工程机械等高载低速场合。		DYB901铜合金轴承，以高密度铜合金为材料，表面可根据客户要求轧制油穴或油槽。它具有较高的承载能力、良好的抗硅磨损性、耐腐蚀。广泛运用于农业机械、建筑机械、工程机械等高载低速场合。		DYB902铜合金轴承，以高密度锡青铜为材料，表面工作表面按一定角度、密度均匀分布着润滑油孔，在启动时容易形成油膜，从而降低启动摩擦系数。它具有良好的疲劳强度和承载能力、耐腐蚀、抗磨损。该系列产品广泛运用于农业机械、建筑机械、工程机械等高载低速场合。		该产品是在DYB902为基础，在轴套高度两端配置密封圈而成。它具有防止油脂倒漏，延长润滑时间，防止灰尘、沙等物质的渗透等优点。		该产品是在KDB090为基础，在表面菱形油穴内埋入特殊的固体润滑剂。它具有很低的摩擦系数，较好的耐磨性等优点，能在无油或少油的条件下作。	
			Product of DYB900 series is made of tin-bronze with its surface punched with diamond or ball shape oil sockets which are preserved for oil saving. It has good anti-fatigue and load, anti-erosion and abrasion capacity. The products are widely applied in conditions of heavier load but low running velocity, such as on agricultural, building and engineering machines.		Product of DYB901 series is made of copper alloy that is of higher density. Its surface can be punched with oil sockets or grooves, which depends on customer's requirements. It has better load-bearing, anti-erosion and anti-silicon abrasion capacity. The products are widely applied in conditions of heavier load but low running velocity, such as on agricultural, building and engineering machines.		Product of DYB902 series is made of tin-bronze that is of high density. Its surface is punched with oil apertures by certain angle and density. Therefore, it is easier to form an oil film when the bush works. Moreover, it has good anti-fatigue, anti-erosion, anti-abrasion and load capacity. The products are widely applied in conditions of heavier load but low running velocity, such as on agricultural, building and engineering machines.		The product is improved from DYB902. Its configured airproof ring on the bushing height. It can prevent grease leaking and dirt penetrating, so as to delay lubricating time.		It is improved from DYB090. The special solid lubricant is imbedded into lozenge oil hole on surface. It has very low friction coefficient and good wear-resistance, is used to the condition of no or little oil.	
			直套 Straight sets		翻边 Flange							
												
			止推垫片 Thrust pads		非标产品定制 Custom-made special products							
												
公差 Tolerance			相配座孔公差: H7 相配轴径公差: f7 Recommend housing tolerance H7 and the shaft as f7									
												

DYB900

青铜卷制轴承

BRONZE WRAPPED BUSHING



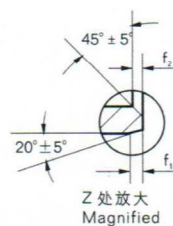
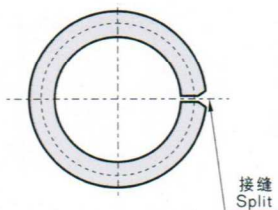
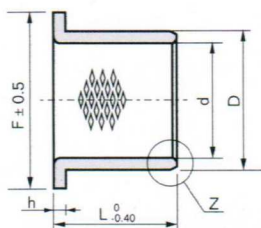
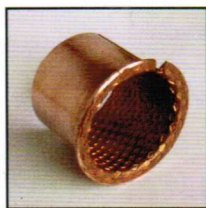
单位Unit: mm

压入座孔后的内径 I.D. after fixed		外径 O.D.		f ₁	f ₂	L													
						10	15	20	25	30	35	40	50	60	70	80	90	100	
10	+0.043 0	12	+0.065 +0.030	0.5	0.3	●	●	●											
12	+0.043 0	14	+0.065 +0.030			●	●	●											
14	+0.043 0	16	+0.065 +0.030			●	●	●	●										
15	+0.043 0	17	+0.065 +0.030			●	●	●	●										
16	+0.043 0	18	+0.065 +0.030			●	●	●	●										
18	+0.043 0	20	+0.065 +0.030			●	●	●	●										
20	+0.052 0	23	+0.075 +0.035	0.8	0.4	●	●	●	●										
22	+0.052 0	25	+0.075 +0.035			●	●	●	●										
24	+0.052 0	27	+0.075 +0.035				●	●	●	●									
25	+0.052 0	28	+0.075 +0.035				●	●	●	●									
28	+0.052 0	32	+0.075 +0.035				●	●	●	●									
30	+0.052 0	34	+0.075 +0.035			●	●	●	●	●	●								
32	+0.062 0	36	+0.085 +0.045	1.0	0.6		●	●	●	●	●	●							
35	+0.062 0	39	+0.085 +0.045				●	●	●	●	●	●							
40	+0.062 0	44	+0.085 +0.045					●	●	●	●	●	●						
45	+0.062 0	50	+0.085 +0.045				●	●	●	●	●	●							
50	+0.062 0	55	+0.085 +0.045				●	●	●	●	●	●	●						
55	+0.074 0	60	+0.100 +0.055	1.2	0.8			●	●	●	●	●	●						
60	+0.074 0	65	+0.100 +0.055						●	●	●	●	●	●	●				
65	+0.074 0	70	+0.100 +0.055							●	●	●	●	●	●				
70	+0.074 0	75	+0.100 +0.055								●	●	●	●	●	●	●		
75	+0.074 0	80	+0.100 +0.055								●	●	●	●	●	●	●		
80	+0.074 0	85	+0.100 +0.055						●	●	●	●	●	●	●	●			
85	+0.087 0	90	+0.120 +0.070						●	●	●	●	●	●	●	●	●	●	
90	+0.087 0	95	+0.120 +0.070						●	●	●	●	●	●	●	●	●	●	
95	+0.087 0	100	+0.120 +0.070								●	●	●	●	●	●	●	●	
100	+0.087 0	105	+0.120 +0.070									●	●	●	●	●	●	●	
105	+0.087 0	110	+0.120 +0.070										●	●	●	●	●	●	
110	+0.087 0	115	+0.120 +0.070	1.4	0.8								●	●	●	●	●	●	
115	+0.087 0	120	+0.120 +0.070											●	●	●	●	●	●
120	+0.087 0	125	+0.120 +0.070												●	●	●	●	●
125	+0.100 0	130	+0.170 +0.100												●	●	●	●	●
130	+0.100 0	135	+0.170 +0.100												●	●	●	●	●
135	+0.100 0	140	+0.170 +0.100											●	●	●	●	●	
140	+0.100 0	145	+0.170 +0.100											●	●	●	●	●	
145	+0.100 0	150	+0.170 +0.100											●	●	●	●	●	
150	+0.100 0	155	+0.170 +0.100											●	●	●	●	●	
155	+0.100 0	160	+0.170 +0.100											●	●	●	●	●	
160	+0.100 0	165	+0.170 +0.100											●	●	●	●	●	

本公司可按客户要求，定制各尺寸的DYB900系列轴套。
We can design the DYB900 series bushing of different sizes according to customer requirement.

DYB900

青铜卷制轴承
BRONZE WRAPPED BUSHING



单位Unit: mm

压入座孔后的内径 I.D. after fixed		外径 O.D.		F	f ₁	f ₂	L 0 -0.40										
							15	20	25	30	35	40	50	60	70	80	90
25	+0.052 0	28	+0.075 +0.035	35	0.8	0.4	●	●	●								
30	+0.052 0	34	+0.075 +0.035	45				●	●	●							
35	+0.062 0	39	+0.085 +0.045	50	1.0	0.6		●	●	●	●						
40	+0.062 0	44	+0.085 +0.045	55					●	●	●	●					
45	+0.062 0	50	+0.085 +0.045	60						●	●	●	●				
50	+0.062 0	55	+0.085 +0.045	65						●	●	●	●				
55	+0.074 0	60	+0.100 +0.055	70						●	●	●	●				
60	+0.074 0	65	+0.100 +0.055	75	1.2	0.8				●	●	●	●	●			
65	+0.074 0	70	+0.100 +0.055	80						●	●	●	●	●			
70	+0.074 0	75	+0.100 +0.055	85						●	●	●	●	●	●		
75	+0.074 0	80	+0.100 +0.055	90						●	●	●	●	●	●		
80	+0.074 0	85	+0.100 +0.055	100						●	●	●	●	●	●	●	
90	+0.087 0	95	+0.120 +0.070	110									●	●	●	●	●
100	+0.087 0	105	+0.120 +0.070	120									●	●	●	●	●
110	+0.087 0	115	+0.120 +0.070	130									●	●	●	●	●
120	+0.087 0	125	+0.120 +0.070	140									●	●	●	●	●
130	+0.100 0	135	+0.170 +0.100	155										●	●	●	●
140	+0.100 0	145	+0.170 +0.100	165										●	●	●	●
150	+0.100 0	155	+0.170 +0.100	180	1.4	0.8								●	●	●	●
160	+0.100 0	165	+0.170 +0.100	190										●	●	●	●
170	+0.100 0	175	+0.170 +0.100	200										●	●	●	●
180	+0.100 0	185	+0.170 +0.100	215										●	●	●	●
190	+0.115 0	195	+0.210 +0.130	225										●	●	●	●
200	+0.115 0	205	+0.210 +0.130	235										●	●	●	●
225	+0.115 0	230	+0.210 +0.130	260										●	●	●	●
250	+0.115 0	255	+0.210 +0.130	290										●	●	●	●
265	+0.130 0	270	+0.260 +0.170	305										●	●	●	●
285	+0.130 0	290	+0.260 +0.170	325										●	●	●	●
300	+0.130 0	305	+0.260 +0.170	340										●	●	●	●

本公司可按客户要求，定制各尺寸的DYB900系列翻边轴套。
We can design the DYB900 series flange bushing of different sizes according to customer requirement.

DYB401 (FR) /DYB403 (FD)

DYB401(FR) 自润滑网纹复合轴承

SELF-LUBRICATING MESHED COMPOSITE BEARINGS



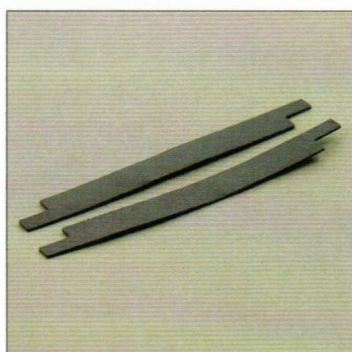
DYB401轴承, 以编织铜网为基体, 采用特殊工艺, 与表面聚合物 (PTFE+Pb) 牢固嵌合。它充分发挥了金属和多元素聚合物的优点, 具有低摩擦系数、良好的耐磨性和自润滑性能。质地柔软、易于安装、无需保养, 可以做钢与钢对磨的隔音膜, 实现无间隙、无阻尼振动、无噪音、无油润滑的理想目的。广泛应用于汽车门铰链、操纵杆、办公机械、关节轴承等轻载需自润滑的领域。

DYB401 is backed with weaved copper mesh, polymers (PTFE+Pb) are well imbedded into the pores of the mesh which adequately deploy and integrate advantages of the metal and the compound polymer. Thus, DYB401 is endowed with a smaller friction coefficient and better capability of anti-abrasion and self-lubrication. Softer texture, easiness for fixing and maintenance-free are its main attractive points. It can work as a noise absorber in conditions of steel against steel friction to achieve an ideal condition of non-resistance vibration, non-noise and non-oil lubrication. DYB401 can be widely used in the light load self-lubricating applications. E.g. door gemel system and navigation shaft on the car, office equipment and joint positions on other machines.

性能指标 Pertormance index	有关数据 Date
最大承载压力 Maximum load capacity	30 N/mm ²
适用温度范围 Applied MAX temperature	-40 °C~+260 °C
最高滑动速度 Maximum sliding speed	2.5 m/s
摩擦系数 μ Friction coefficient	0.05~0.20
允许最高PV值 Maximum PV value	1.65 N/mm ² ·m/s

DYB403(FD) 自润滑聚合物软带

SELF-LUBRICATING POLYMER SOFT PLATES



该产品以聚四氟乙烯(PTFE)为主要原料, 填充其它耐磨材料, 经过模具压制而成, 当材料与对偶面进行摩擦时, 表面PTFE聚合物不断向对偶表面转移, 从而实现了摩擦副之间的良好润滑。广泛应用于汽缸、油缸、减震器、机床导轨等领域。

The belt is made by compressing PTFE and other anti-wear fillers with particular molds. When friction occurs, PTFE compounds on its surface continuously transfer to the mating surface. Thus achieves good lubrication between mating articles. Products made by this belt are widely applied on air and oil cylinders, shock absorbers, working orbits of the machine tools, etc.

性能指标 Pertormance index	有关数据 Date
最大承载压力 Maximum load capacity	30 N/mm ²
适用温度范围 Applied MAX temperature	-40 °C~+260 °C
最高滑动速度 Maximum sliding speed	2.5 m/s
摩擦系数 μ Friction coefficient	0.05~0.20
允许最高PV值 Maximum PV value	1.65 N/mm ² ·m/s
抗拉强度 Tensile strength	> 15 N/mm ²

■ 轴承选择 Bearing Selection

鼎义轴承公司根据不同的工况条件设计了不同的轴承材料。一般来说，用户在使用和设计时应当根据轴承的使用温度、承载面压、线速度、耐磨性能要求、运动类型、安装情况、轴承成本等各方面因素综合考虑。

DINGYI BEARING have developed kinds of bearing material According to difference work condition .The user can select the material the material base on bearing work environment, load, speed, wear resistance resistance request, moving method, etc.

■ 面压计算 Bearing Load:

- 直套、翻边产品 Cylindrical bushes, flange bushes

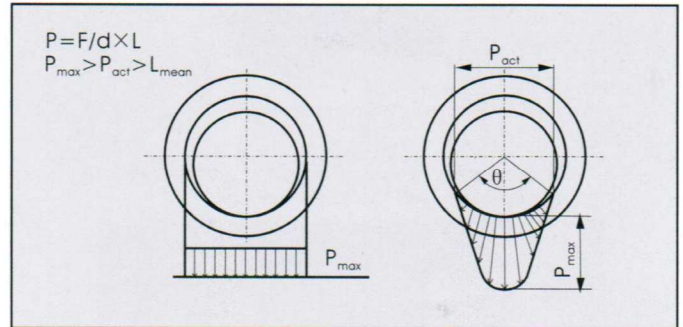
$$P = \frac{F}{d \times L} \quad (\text{N/mm}^2)$$

F = 轴承承载值 Load (N)
 d = 轴径 Shaft (mm)
 L = 轴承长度 Bearing Length (mm)

- 止推垫片 Thrust washer

$$P = \frac{4F}{\pi (D^2 - d^2)} \quad (\text{N/mm}^2)$$

F = 垫片承载值 Load (N)
 d = 垫片外径 Shaft (mm)
 L = 垫片内径 Bearing Length (mm)



由于受配合间隙、材料强度、轴承倒角、内部油槽等原因的影响，轴承的真正承载面压（P）会大于理论计算值（P）
 As the factor of clearance, bushes chamfer, oil groove etc., The actually load(P) is higher than theory of calculation(P)

■ 线速度计算 Bearing Load:

- 旋转运动 Rotating motion

$$V = \frac{\pi \times d \times n}{1000 \times 60} \quad (\text{m/s}^2)$$

d = 轴径 Shaft (mm)
 n = 转数/分 Rpm

- 摇摆运动 Oscillating motion

$$V = \frac{\pi \times d \times C \times \theta}{1000 \times 360 \times 60} \quad (\text{m/s}^2)$$

d = 轴径 Shaft (mm)
 C = 摇摆频率 frequency (次数/分)
 θ = 摇摆角度 Oscillating angle

- 往复运动 Rotating motion

$$V = \frac{2s \times c}{60} \quad (\text{m/s})$$

s = 行程长度 Stoke distance (m)
 c = 往复频率 frequency (次数/分)

■ PV值计算 $PV = P \times V$ (N/mm² × m/s)

PV是指轴承在一定的承载和线速度条件下的乘积之和，PV值与轴承的使用寿命成反比例关系。因此建议设计时尽量使用比较低的安全的PV值，以确保轴承会有更长的寿命。同时在选择材料时也要注意不能超过承载、线速度、使用温度等极限值，并尽可能地小。

PV is the product of the specific bearing load P and the sliding speed V which is very important design date. We recommend design lower PV value will leads to longer service life. Also don't exceed the max. of material load, speed, temp. and lower if possible.

■ 安装注意事项 Installation:

装配前应确保座孔内表面光洁无异物以免装配时划伤。装配时应采用芯轴慢慢压入，禁入直接敲打轴套以免产生变形。座孔设计时如需采用易变形材料如铝合金或座孔壁厚较薄时，请予以说明，以免压装时使座孔变形。为了使装配更简单且不会破坏耐磨层，轴的端面必须有倒角圆滑过渡，轴的材质建议为轴承钢表面淬火处理HRC45，表面粗糙度为Ra1.6~1.8，表面也可镀硬铬，有可能的话，请在轴表面涂上油脂以缩短轴套走合期。非卷制类厚壁轴承建议使用液氮冷冻。

The bearing, housing and fitting tools must be kept clean during fitting. Please give special notice to us if you adopt the soft material for housing produce. To make fitting easy, the shaft ends should be chamfered.

